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NetKiljan

*Final Year Project
2009*

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Háskólinn
á Akureyri
University
of Akureyri

NetKiljan

Final Report

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*Submitted April 2009, in partial fulfilment of
the conditions of the award of the degree BSc.*

*I hereby declare that this final report is all my own work,
except as indicated in the text:*

Signature _____

Date ____/____/____

Abstract

This is the final report for my final project 2008-2009, online personal library. Its purpose is to describe the project design, its implementation and evaluation.

I began working with the question "Is it feasible to create an online personal library for user to add their books and store them on a database and how it is best to produce it". After some research and analyzing, I came to that conclusion that it was feasible.

To tackle this project; to find workspace needs and how best to create it, I did some background reading and examining similar system and techniques. After analysing the gathering data, I began to work on the design. Once the basic design was ready it was implemented to a fully working database system and overall the system has been completed successfully consider the basic idea.

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LIST AND DESCRIPTION OF APPENDICES

Appendix A – Code Listing

Full listing of the code. The code is included on the CD attached to this report

Appendix B – Project Plan

A Gantt chart showing the projects timeline attached to the report.

1. MOTIVATION FOR THE WORK

The first that comes to mind when I selected this project was that it would be nice to have your own database system that holds all of your book and magazine in one organized order so I can browse though it easily and promptly without spending a lot of time to find one book or subject of some matter. Simple database and user interface for your personal use, even it is possible to take this little further and add also DVD movie and CD disk collection to this also.

In the beginning I got this idea of this project when I was visiting my parents one Sunday evening and I was looking up to this big closet of books, and I said to myself "they don't have a slightest idea how many or what books does this closet keep. My parent's heritage all of these books from my grandpa who kept a small library at his home, after his death the books was divided along the families in random matter you can say. My parents tried to organize this books in each self, but after 10 years I think they don't really know what is in each self, mainly because many of these books aren't titled on cover because many of them is very old.

Well I thought to myself that would be smart idea to register all of these books down in order, it would be nice to have this in the future if someone or somebody want to read or search through the books, and then the idea came to me, to build a database program that can do this for me.

And if you think about this handy tool will probably come in handy in small businesses and institution that want to keep track of their books.

I would think this is very useful tool in e.g. in kinder gardens or maybe in old folk's houses, that have a relatively big amount of books of their own

Also I have little bit experience in database system from previous group project in school so this is very good opportunity to take database system to the next level.

2. DESCRIPTION OF THE WORK

My aim is to build a database system that can hold records of books and maybe DVD's, CD's and other paper materials in suitable matter like an online library for personal use or for business use. User could add books and other stuff to an online database that the user would have access to. User could also maintain the database and delete from it also. User could have the opportunity to sell or advertise for used books on the website through a marketplace implemented to the site.

2.1. The website

I'm planning to make usable attractive webpage for my project, as I already created an interactive HTML/PHP website in the HVN0183 - group project course, so I'm assuming that I will be able to manage that. With constant testing and therefore user response, I will improve my design frequently. This will be a web interface and will be hosted on the web. Users have to register to the webpage and fill out necessary information about themselves e.g. username, password and other information.

I'm going to implement the model in PHP/MySQL to store the required data and allow it to be accessed through a web interface

This database will be hosted on central based system that is you can access the system anywhere give that you have internet connection.

2.2. The online library

Here are few things that I'm going to implement into the software that I like to call "NetKiljan - *your personal library on the web*"

- The users can add personal account, and login with their credentials
- The users has ability to add books and other material to the database and maintain and change books status
- The users can maintain, update and change their data and records they can add also properties of each book e.g. if the book is lend to somebody they can mark that.
- The users can advertise for books or for sale on the commercial page in the system that everyone has access to (main page of the system).

The users can also access statistics data of their data e.g. Number of book, DVD and CD in the database, how many books are in loan somewhere and where it is.

2.3. The server

I have already purchase a small unit that will be hooked to the internet that will host my webpage. The box is called “Qnap NAS server”, it is completely remote managed through the web so I can make online changes to the homepage without interact with the server locally.

I’m going to try host it here at home, I have been testing it out, but the internet connection here is very slow so I’m interesting to have at school for more bandwidth purely for the upload speed. The server act also like a MySQL server and has also PHP server scripting build in. So all the interactions on the webpage is through that box at my home for now.

QNAP TS-109 II is the next generation one-bay network-attached storage (NAS) for SOHO, home, and power users. The performance and functions are largely enhanced by the high performance Marvell 500MHz CPU and 256MB DDRII memory. The NAS maintains high performance operation even when there are multiple accesses to the services concurrently. TS-109 II is simple to use and install. An intuitive web-based interface is provided for convenient system setup and management. The built-in phpMyAdmin, Joomla! and MySQL/ SQLite support enables easy web hosting.
(Qnap Systems Inc, 2009).

2.4. The database

For the system I have to need to create database, containing information about the user’s registration and the library database for the data itself also other stuff I want to keep. Since I have already study MySQL database system and also do the group project I hope I can use the knowledge gained from that course and the project to apply it to my software.

The MySQL® database has become the world's most popular open source database because of its consistent fast performance, high reliability and ease of use.

(Sun Microsystems Inc, 2008).

2.5. PHP and DBMS

As server side scripting programming language, I’m going to use PHP since it free and also my server fully support it so it is very convenient to use, also for the database manage systems. I will use phpMyAdmin software to build and manage the database. PHP is very easy to use so it is ideal for this project.

PhpMyAdmin is a free software tool written in PHP intended to handle the administration of MySQL over the World Wide Web. phpMyAdmin supports a wide range of operations with MySQL. The most frequently used operations are supported by the user interface (managing databases, tables, fields, relations, indexes, users, permissions, etc), while you still have the ability to directly execute any SQL statement.

(phpMyAdmin team, 2009).

3. RELATED WORK

There is a couple of websites that provide such service, but they are both complicated and also on English, one of my aims was to build this webpage to be simple and easy to manage and also on Icelandic.

Here is one website that is similar to my idea.

Library Thing – *What's on your bookshelf.* (<http://www.librarything.com>.)

The Library Thing webpage I thing is very complicated indeed and the user interface its not so good either, I wanted to simplify this website more and make it more user-friendly.

Also I've got some great ideas from the Gegnir website. (<http://www.gegnir.is>)

Main things that I found is how to build the search interface for the users among other tools that I found to be neat.

4. DESIGN

This chapter describes the overall system that I am going to create. The development approach as shown here below [Figure 1].

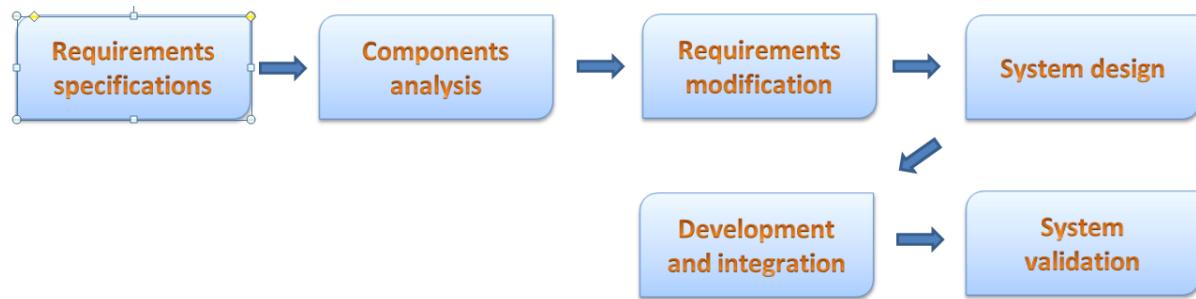


Figure 1. The development

4.1. Use-case diagram

After gathering the information needed to make this webpage function correctly the Use-case diagram was created, to explain how the users and administrator interact with the webpage [Figure 2].

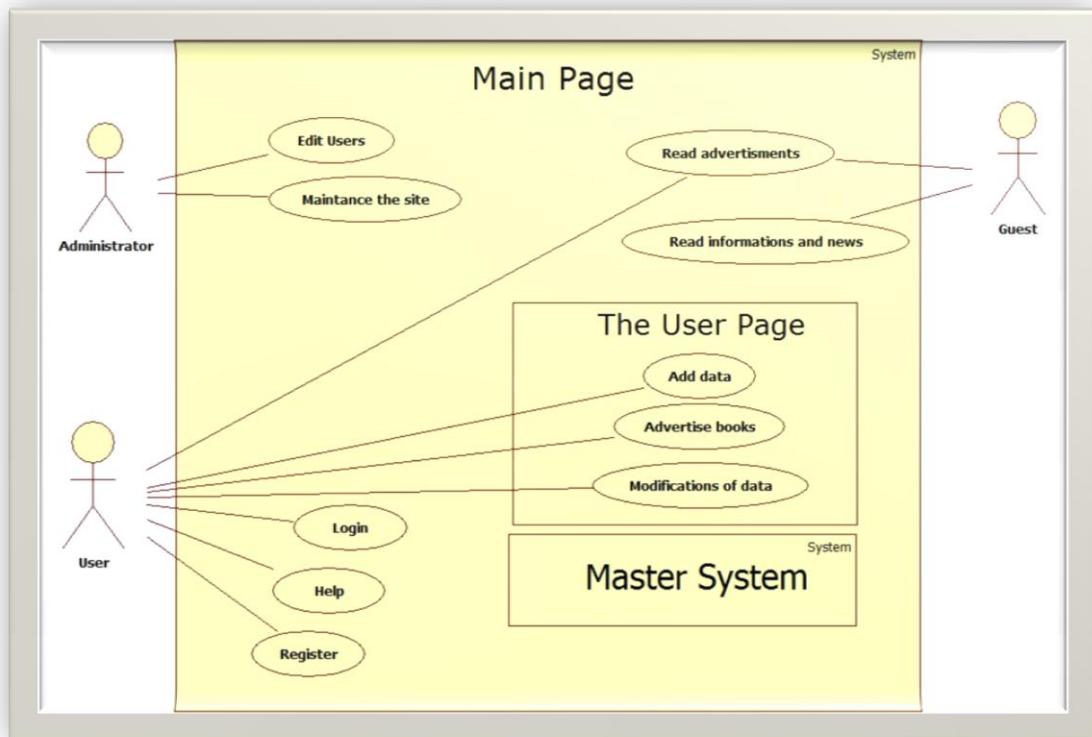


Figure 2. Use-case diagram

4.1.1. The user

The user can do number of things on the website. He can read help about signing up and register onto the webpage, he can read recent advertises on the main page that some other users that have written to sell or requesting books or just to read the latest news and updates about the websites that the administrator has written recently. The user can login to the database from the website by entering his registered password and username, given that he has already registered to the webpage and has filled out the register-form. When the user has logged in he can add books or other material, seek for a book or maintain his database. He can also request or sell a book and post it to the main page for other users to read and reply to that thread.

4.1.2. Administrator

The job of the administrator is purely to maintain the website and keeping it up and running or write announcements and help the users with any problems that can occur. He is also responsible edit the user list and maintains it. He would recover lost password for the user, but in future work I would implement that the user would do by itself.

4.1.3. Guest

The guest is just allow to read articles and advertisements on the webpage and read the introduction to the website e.g. what the website does and what does it service does it provides for users. If the user would like to contact other users though the market place, if the other user has provides phone number or email, but it is recommended that the guest would register to the site.

4.1.4. Subsystem - Master

This system is responsible for updating the database for each user and make all transaction to the MySQL database, and also interact with the database for the main page for the new section. It also takes cares of any error that would occur, e.g. if the website would not connect to the database.

4.1.5. EER diagram

Figure 2.1 shows the EER diagram of the database designed for this project.

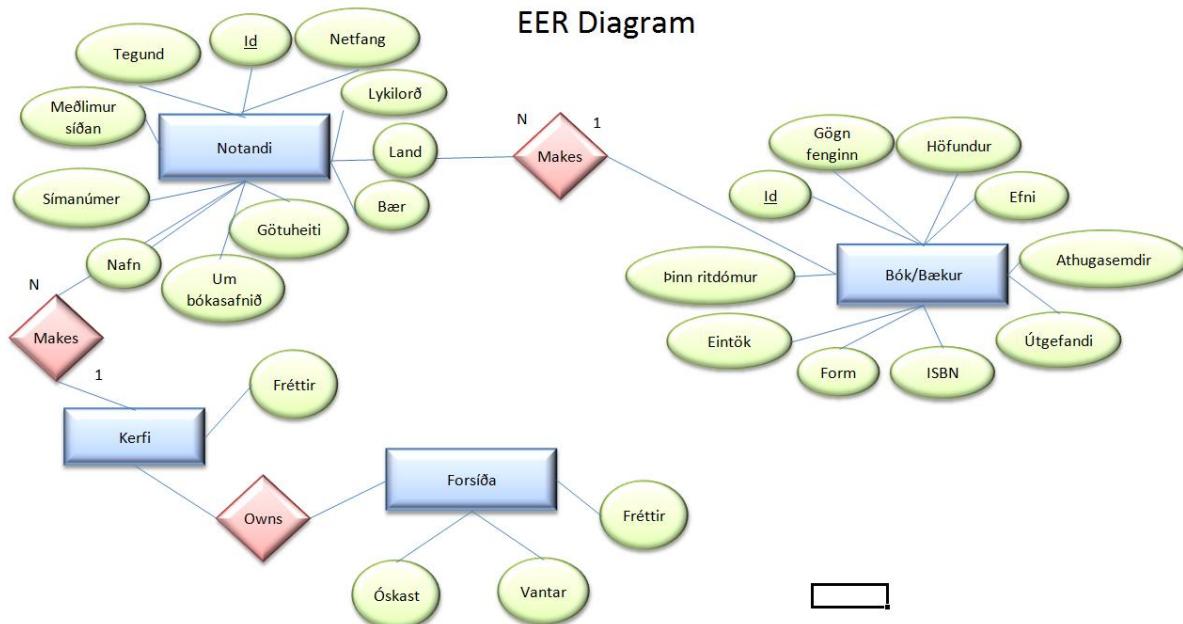


Figure 2.1.The EER diagram

The database consists of:

Notandi (user)

- Id (Id)
- Netfang (E-mail)
- Lykilorð (password)
- Land (Country)
- Bær (city)
- Götuheiti (street)
- Um bókasafnið (about)
- Nafn (name)
- Símanúmer (telephone)

Bók/Bækur (book)

- Gögn fenginn
- Höfundur (author)
- Efni (topic)
- Ath.semmdir
- (comment)
- Útgefandi (publisher)
- ISBN
- Form
- Eintök (copies)
- Þinn ritdómur(your review)
- Id

Forsíða (main page)

- Óskast (wanted)
- til sölu(for sale)
- Fréttir (news)

Kerfi (system)

- Fréttir

5. IMPLEMENTATION

The implementation included programming in Html, PHP, JavaScript and MySQL queries commands. I mostly work at home and putted each content part on to my server to test for errors and marked sure the functionality was that I was expecting. After testing each of the content then it was combining with the rest of the system.

NetKiljan - Bókasafnið þitt á netinu

Bækur til sölu

- Fagmennska og forysta
Ef einhverjum vantar þessa bók þá er hún fól. Endilega hafið samband í síma 4625564
- Human-Computer Interaction
Til sölu þessi frábæra bók um notendavöldumt. endilega hafið samband í síma 555-5555

Bækur óskast

- Vantar Stær 202
Mig vantar Stærðfræði 202 fyrir framhaldsskóla, endilega hafið samband í síma 555-5555.
- World War 2
Mig sár vantar bók um seinni heimstyrjöldina, strax í dag!

Um síðuna:

Netkiljan er skemmtileg síða þar sem þú getur skráð þínar bækur á þitt eigið bóksafn á netinu. Þú einfaldlega skrár þig inn og byrjar að skrá bækurnar eða tímarit í gagnagrunn og getur síðan leitað eftir þeim seinni þegar þér hentar. Endilega skráðu þig inn strax í dag!

Fréttir:

Netkiljan á lokstigi – 2009-03-28
Núna er síðan næstum því tilbúinn, næst á dagskrá er að prufukeyra hana á samnemendum mínum og fleirum. Því er næst að laga það sem finnst í þessum prufenum og endurbæta.

Skráning og leit bóka – 2009-02-28
Núna er mögulegt að skrá bækur og leita. En þó má geta að síðan er enn í "Beta" prufenum. Takk fyrir þolinmæðina.

Notendur geta skráð sig – 2009-02-06
Núna geta notendur skráð sig á síðuna og síða skráð sig inn, næsta skref er að notendur geti farið á síðan eigin síður í þeiu frammaldi.

Nýskráning notenda. – 2009-02-01
Það hefur verið opnað fyrir nýskráningu notenda til reynslu, endilega prufaðu að skrá þig á vefinn [Hér](#).

Notendur – 2009-01-25
Um þessar mundir er ég að forrita það sem kemur að notandanum þ.e.a.s. Búa til gagnabankann fyrir notendur og gagnasónum frá notenda.

Velkomin(n): Hrafnhildur

Mín Síða
Skrá út

PEKING
TÖLVUDEILDIN PÍNI

Heimsóknir:
0215

Figure 3. The main page of the website

5.1. Main features

The system is database system, design to fit the needs of individuals and institutes. The idea of the system is it should be adding a users to the system and each of the user's holding a private database of books and other materials that the user has added to their database also could the user exchange or sell books through a simple market on the website.

The prototype is free of charge for everyone, but when fully implemented the user would pay a fee to use the page, just to pay for the cost to maintain the page and hosting it. It is design to be accessible through the internet, with most of its content accessed by logging in.

The system displays the content the user who is logged in has access to and has chosen to keep track of.

The system is designed only on Icelandic in mind, but it has the opportunity to be on multiple languages.

The system is Open Source.

The system is not usable offline. The system must be connected to the internet so the user can access their data from the online database; the system was not intended to have a local database.

5.2. Changes from the original plan

In the feasibility report I decided to implement full working online library website with user registration and login, user could add books and other materials and also sell, exchange or sell books and magazine through the website along implementing RSS (Really Simple Syndication) to publish frequently updated works so the user could get notified if new books are for sale or wanted by other users.

Once the interim report was written was I more positive to accomplish this work and I would finish this work in time but I thought to myself it is better maybe to reference the book market idea to the future work idea. The plan was to finish the system before March 2009 but that was an overestimation because the testing and the trouble that I went through in the security of the system and also lack of knowledge and experience really took a toll, so it wasn't until 1 of April when the system was ready after bug fixes and some changes in the user interface. After that it was not much time to implement the stuff I wanted to add to the system that I thought I could finish in time before beginning to write the final report.

So I ended up with a system only handling user adding books and searching their own library but not interact with other users through the web, also I was really hoping to implement lost password function to the system if the user forgot or lost their password.

Overall the system is working fine and the users that have tested the site are quite happy with it and I hope that some of them will use it in the future and enjoy it also I think with some extra work when I have time it would be nice to finish the site in that manner that it would do all the things that I wanted to do in the beginning.

5.3. Language and platforms

The language I decided to choose was PHP, along with HTML and CSS used as the framework. The reason for choosing those where all three are standard web languages that are platform independent and I had previous experience with these language before from previous work and also my server only supported PHP. I consider to use Python because that was a possibility to upgrade my server to include that language also but I thought that I would be longer to learn Python rather than PHP because of my previous knowledge.

Same thing with the MySQL, it was chosen as the database system because my server supported that and I had previous experience in MySQL queries before. Both are free of charge and simple to set up. PHP offers support for different types of database and it should not be too complicated to adjust the system to e.g. ORACLE, MMSQL or MSAccess. But consider the size of this project it was not any reason to implement this project to bigger or complex database system than like the ORACLE system.

There are couple of java scripts implemented to the site providing e.g. a sorting of a table of books when the user as a list of possible books that he was search for also some minor scripts to alert user and validate user input. The validation script was necessary in the registration form to inform the user of mistake in the input.

Along using my QNAP server that I have previously talk about, I use phpMyAdmin, a tool written to handle MySQL administration over the web and locally. This simplified the process with working and developing the database a lot it really helped me to organize the database both for the books, making the user accounts database. It also helped me to build PHP scripts commands to quire the database right and efficiently. I use this program also to regular backups of the database and maintain it also. One of the good features of phpMyAdmin that is its in a web based format that you can easily log in anywhere to make a change or fix the database if needed e.g. make changed to the table both alter them or delete spurious data from them.

5.4. Content of the system

Main page: NetKiljan needs to be accessible from the internet so the user can log in wherever to access their personal library through the main page.

- The system keeps track of who is logged in, each user will get encrypted session id when logged in until logout the session will be destroyed.
- The user can read news about the site and also see if some modification or updates has been made to the site.
- The user can read ads in the market place of books for sale or wanted (Not yet fully implemented.)
- Read common introduction to the site.

Insert page: Where the user insert books or magazines into their database

- User enters basic information about the material that is going to add to the library.
- Each time that you add a book to your database it will appear in a list of “recent added book” so the user can click on and detail info about each copy of the book recently added to the library

Search page: Where the user search his personal library

- User enters keywords to search his database, and get a result in a list that is alphabetical sorted by the title.
- Recent search activity last few days will be updated when user has search or found book.

Use option page: Where the user can change their detail and information about them

- User can input some info about them self.

Logout section: User will be logout after pushing the log out button.

- The user session will be unset and destroyed.

Registration page: Display a form that the user has to fill out to register to the website

- User will have to fill out his user id, password, password again and his email.
- The user can also fill out his full name and address and other info.
- After user has fill out these thing the system checks wherever the user id exist in the database or not.

Login page: Page that is run by the system checking if the user exists in the database and his password is correct.

- The system checks if the username and password is correct and after confirmation it automatically redirect the user to the main page.
- If something has gone wrong e.g. user has entered incorrect password, he will get a pop window notifying him about it.

The screenshot shows the 'Skrá bók' (Add book) form. It includes fields for Title, Author, Description, Type, Language, and Form (Book, Magazine, Article). To the right is a sidebar titled 'Nýlega skráðar bækur' (Recently added books) listing 13 entries with titles like 'Með lífið að láni' and dates from March 2009. A note at the bottom says 'þú getur smelld á bók til að skoða nánar eða breyta.'

Nr.	Titill	Skráð þann
1	Með lífið að láni	19/03/2009
2	Leikskólar fyrir alla	03/14/2009
3	Frá gæslu til skóla	03/14/2009
4	Aukin gæði náms	03/14/2009
5	Trilla	03/14/2009
6	Dauðans óvissutími	03/12/2009
7	Einhvers konar ég	03/12/2009
8	Dóttir gæfunnar	03/12/2009
9	Haugbýjötar	03/12/2009
10	Uppeldisbókin	03/12/2009
11	Grafarþögn	03/12/2009
12	Bíbí	03/12/2009
13	Dætur Kína	03/12/2009

Figure 4. Design: The adding of books

The screenshot shows the 'Leita eftir bókum' (Search for books) form. It includes fields for Author, Title, and Type (All, Book, Magazine, Article). To the right is a sidebar titled 'Þú leitaðir eftir þessum bókum seinast' listing 6 entries with titles like 'Með lífið að láni' and status 'Inni'. A note at the bottom says 'þú getur smelld á bók til að skoða nánar, uppfæra eða eyða henni.'

Nr.	Titill	Inn/Úti
1	Með lífið að láni	Inni
2	Hroki og hleypidómar	Inni
3	Sense and sensibility	Inni
4	Heat and dust	Inni
5	Leikskólar fyrir alla	Inni
6	Grafarþögn	Inni

Figure 4.1. Design: Searching for books

The screenshot shows a web-based library catalog system. At the top, there is a navigation bar with tabs: 'Heim' (Home), 'Leita' (Search), 'Skrá' (Catalog), 'Stillingar' (Staff), and 'Skrá út' (Check Out). A small icon of stacked books is located in the top right corner.

The main area is a form titled 'Eyða eða uppfæra - Grafarþógn' (Delete or Update - Catalog Record). The form fields include:

- Titill:** Grafarþógn
- Hófundur:** Arnaldur Indriðason
- Staður/Útgáfu ár:** Reykjavík | Árið: 1995
- Efni:** Síaldísaga
- Útgefandi:** ekki vitað
- Umsögn:** Mannabein finnast í grunni nýbyggingar i útjaðri Reykjavíkur
- ISBN:** [empty field]
- Form:** Bók
- Tungumál:** Íslenska
- Inni/úti:** Inni Úti
- Staðsettning:** uppi bókaskáp
- Fjöldi:** 1 stk. 1 2 3 4 5
- Stjórnugjof:** [empty field]
- Buttons:** Vista Breytingar, Eyða bók, Hætta við, Til Bóka

Figure 4.2. Design: Individual book

5.5. The database

The database needs to hold all the information not only about the user's access but also about all the books the user has entered into the database. The system also has a database holding the news and notifications that are displayed on the main page.

The market place database is also stored on the database holding information about the books that are for sale or wanted for sale. All of the databases have primary key so it will be easy to maintain and talk to the database.

Description of the database:

- Users
 - Hold information about the user that has signed up to the website. The vital information about the user is the user_name, password and email all other info is extra.
- News
 - Hold information about the news section, that the system administrator owns. The administrator user logs into the site and can write notifications and news (For future work).
- Books_sale_wanted
 - Information about the books that the user wants to sell or buy. The user gets extra webpage for filling out advertisement. (For future work).
- Books
 - Holds information about the books that the user can fill in. The user has to fill out the title, but other information can be extra.

Schema diagram of the database [Figure 5]

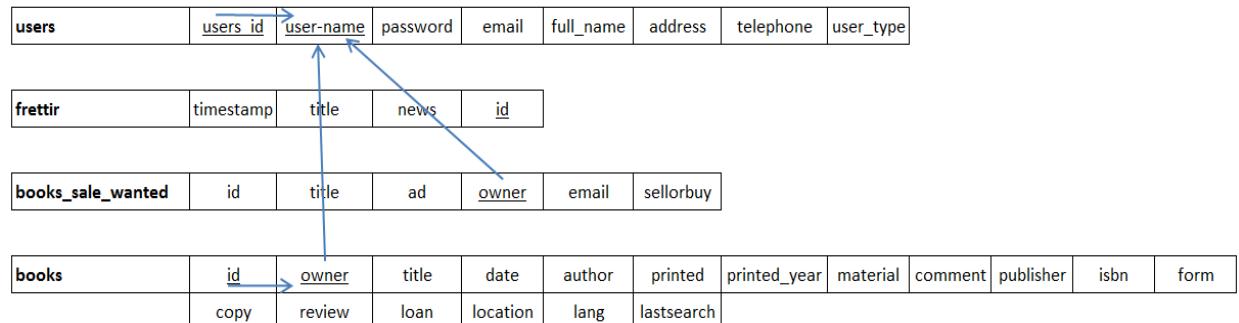


Figure 5. Schema diagram

5.6. Problems Encountered

User registration

I had a tutorial how to make a secure and good way to register users, the problem with that code was not fully suitable for this project so I had to change the code to my need but keep the basic registration code that I needed. I added a JavaScript function to the code so the user would get notifications if he or she has enter some wrong input into the form, I had some trouble with this at the beginning to make this work correctly, I had been reading a article how to do this but I had to change this to suit my project. Also I had trouble with the JavaScript to display Icelandic characters on the page. Other problem that I wanted to avoid is if the user would hit the submit button twice there is a chance the script would try to write to the database twice, but I prevent this at the end.

User log in

Only trouble on this section of the code was to prevent all kinds of error that could happen when the user was trying to log in e.g. if there where problem with the connection to the database.

Search page

The main trouble was to make an efficiency search engine to get the best result from the string that the user is searching for. I wanted to give the user could enter only part of a word when searching for something e.g. when the user don't remember what is the full name of the title of the book, he only remember part of the word then the search engine would try to fill in the blanks maybe to help find the right title, but these option just have limit function if the user has enter too few words or letters that mach with the whole string it will not appear in the result.

Other problem was to combine the search option when the user has narrowed the search option down to minimize the result found.

I would also like to have it like that when a think back, if the user for instance has search for a title, when he hit search; it will collect how many instances found a print it out in the search window then the user would see how many instances found and click the number if he thinks that the result is below of some count that he want to see, if he count is to high then the user would retype and narrow the search without seeing the final result list.

Individual books

The main trouble was to fill out again the form that the user has entered before and also for the user to delete and update the books.

Icelandic letters

Icelandic letters where problem from day one it doesn't matter if you where displaying Icelandic characters or writing Icelandic characters to the database, the special characters would always be display wrongly, the same thing is for the JavaScript but I have prevent this now but it has been occurrences in some browser that the characters will not display correctly I will try to completely prevent this in the future.

The university network

When I was evaluating the website with my fellow student, we found serious problem with the website, it's like when the multiple users where logged in to the site the users variables and pages where mixed up e.g. if one user where searching for books and the second user log in at that time the second user would get the result and the list of recent books added will be displayed on the wrong user. It is a serious threat to the security of the site because if the user got a hold of the others variables like the user id, then the intruder would be able to delete books or change settings on another user. It took me a long time to try to figure out what was going on, I went over and over the code again to find if where some trouble with the code and also I got a help from another student to try to fix this problem. First thing I thought was to blame this on my server, it must the some settings on my box that were incorrect, but after awhile after reading from the site www.php.net, the server was setup with common adjustment for the PHP and MySQL settings and it didn't not indicate that the server was the problem we even try to setup the website on host in France and it was the same problem.

I took this problem to the system administrator of the University of Akureyri and he told me that this could be a problem on the mutual proxy server that the all the schools in the country are connected to. He also told be there where no proxy server in the university here then it must be a problem out site the school, but I was not convinced yet this problem had to be mixed because this will really make the site un usable in school.

I was convinced about this really must be somewhere that the site would be cached somewhere on the way from my server like proxy servers often do to safe up traffic. I was reading about how proxy servers and security on webpage's would often work together, when I found discussion about this matter, I there was a small script testing if the computer that you where working on will be connected directly to the internet, I tried that script on my site and found out all the computers on the wireless network in school where somehow connected through a some kind of proxy server, and the local computers that where wired on the local area network aren't so my website was working fine on the local machines but not on the wireless network.

I got no explain why this was like this from the administrator, so I just blocked all connection from proxy servers to prevent this security risk to happen again.

I would like to fix this in the future and try allowing connection trough proxy, but that will have to wait until I get better explanation how the wireless network is setup.

Lack of time

General lack of time to create the content, do testing and finish the design was the main reason why not all the components where not implemented to the system. This was due to couple of things.

1. Other courses and projects in school where taking a lot of time from me and it really affected the time I needed for this project.
2. Lack of background knowledge was also a big factor
3. The problem that went into investigating the proxy problem.

Also there were some time that went into setting up the server for this project and how to manage the server box that I was using.

6. EVALUATION

Interface Evaluation

I had a group of people with various knowledge in computers, the reason for trying get the software testers with different experience in computers and software is to avoid bias, that is because the more experienced users are more common knowledge with standard user interface then other non-computer people, even if I have set up an usable interface, the non experience users have a big change to getting into trouble, and could be easily stop of something that they don't know how to deal with that is not well enough explained.

The group that I had contacted are both fellow faculty members and non faculty members, the non faculty member are people that have some or little experiences in web software system or other software systems. The individuals received access to the prototype and where asked to test it and give a review what they thought of the system. This revealed some problems with the prototype as well as ideas for the future of the project.

Most of the evaluator found the interface easy to use though they interface and the layout where not completely finish yet at that time.

They way I done the evaluation was to observe the user ask them question about each of the components in the website, I tried to give as little help as I could and let the testers try to manage by them self to see if they could tackle the problem.

First thing I did is to let the user register to the website and see if the understand how to fill out the registration form and then log on the website and start using it.

I had added a JavaScript that evaluated the registration form dynamically as the user input text to the form. If the user enters e.g. to short password or the password don't match, the script would make a notified about that right away so the user could easily correct there mistake also if I make a notified about if the user forget to input important information e.g. the username.

I had before make a good evaluation of the registration form, and enters various wrong inputs to the form and try to catch all possible wrong or peculiar input to the form. The test result that I did on the form by inputting strings that the user could input for mistake, have been put into a table covering the registration form that the user would have to fill out, the username, password and e-mail.

[Figure 6].

And also another reason for automatic evaluation is to prevent scripts that automatically fill out forms and try to advertise products or service of unwanted things after they have logged in. These scripts are commonly known as adware's or web crawlers. But of course it would be better to have a picture of letters or words that the user would have to read from and enter, because these scripts have a hard time to read from a picture. But I have to consider that possibility in the future work of that project.

Notenda nafn (User name).		
User input	Response (Villa : Error)	Reason
Pa	Villa: minnstakosti 4 stafir	Username have to be more than 4 characters
Ððaa	Villa: Má ekki innihalda bil né sérstafi	The username may not contain icelandic characers e.g. Ð þ Ö
...Abs	Villa: Má ekki innihalda bil né sérstafi	The username may not contain special characers e.g - . * /
A@aaa	Villa: Má ekki innihalda bil né sérstafi	The username may not contain the @ sign.
aBC SS	Villa: Má ekki innihalda bil né sérstafi	The user name may not contain any spaces.
Abc 1	Villa: Má ekki innihalda bil né sérstafi	The user name may not contain any spaces.
26 X Characer	Villa: Má ekki vera meira en 25 stafir	The username may not contain word longer than 25 char.

Note: underscore is acceptable in username

Lykilorð (password).		
User input	Response (Villa : Error)	Reason
Pa	Villa: minnstakosti 4 stafir	Username have to be more than 4 characters
Ððaa	Villa: Má ekki innihalda bil né sérstafi	The username may not contain icelandic characers e.g. Ð þ Ö
...Abs	Villa: Má ekki innihalda bil né sérstafi	The username may not contain special characers e.g - . * /
A@aaa	Villa: Má ekki innihalda bil né sérstafi	The username may not contain the @ sign.
aBC SS	Villa: Má ekki innihalda bil né sérstafi	The user name may not contain any spaces.
Abc 1	Villa: Má ekki innihalda bil né sérstafi	The user name may not contain any spaces.
15 X Characer	Villa: Leyniorð of langt.	The username may not contain word longer than 15 char.

Lykilorð aftur (password agin)		
User input	Response (Villa : Error)	Reason
password != password again	Villa: Leyniorð eru ekki eins	The password do not match. Reason for this option is to make sure that the user has not accidentally make a typo or was not sure what he type in before.

Note: If the user has enter an acceptable password before

Netfang (Email).		
User input	Response (Villa : Error)	Reason
ppp@	Villa: ekki gilt netfang.	The mail does not have any domain attach to it.
ppp@ðððð.is	Villa: óvenjulegt netfang. ATH!	the domain has an special characters.
pp q@mbl.is	Villa: óvenjulegt netfang. ATH!	The email got an empty space.
palli@.is	Villa: ekki gilt netfang.	The domain is missing
palli.mbl.is	Villa: ekki gilt netfang.	The @ sign is missing.
ðððð@mbl.is	Villa: óvenjulegt netfang. ATH!	There are special characers in the username.

Note: underscore is acceptable in username

User login in the main page		
User input	Response (Villa : Error)	Reason
Empty	Þú fylltir ekki út viðeigandi reiti	You didn't fill in a required field.
Wrong password	Notendanafn eða leyniorð eru röng	That username doesn't exist in our database or wrong password.
Wrong username	Notendanafn eða leyniorð eru röng	That username doesn't exist in our database or wrong password.
Username to long	Notendanafn of langt.	Sorry, the username is longer than 25 characters, please shorten it.

Note: try not to give to much information if where attempt to hack the website.

Figure 6. Input test

All of the individuals that reviewed the website would comment along the way as they used the website, these comments I noted down per individual. Most of these comment where just minor fixes and could easily been fixed but some of them was a serious code error or some found some components that was not behaving properly as they should be doing. Also the where some usability of the tools and action in the page not explained well enough that the user did not know of.

The search page got some more work done and fixes, here is some of them I did after the comments from the testers.

"When you have searched for a book you get a list of couple of books that is possible things that you are looking for, but I did not know that you could sort the list ascending or descending, I did not really know about this option, you should make a point of this in the website"

"The layout is rather strange in Windows Explorer, but is okay Mozilla Firefox."

"You got two dropdown lists to select which you want to search for, but in both drop down list got both default item the same Titill and Titill (Title), maybe will be a smart idea to have Titill and Höfundur (Author), so the user knows that there is more options to combine together to made up a search string"

"I would like to see that you can click Bók (Book), Tímarit (Magazine) og Annað (Other)"

"Annað'(Other) is missing in the dropdown list of types of books"

"Have a title above each of the components, so each of the components has a name"

"Try to have the pop window buttons on Icelandic; OK and Cancel"

The toolbar was quite misunderstood; the search page was not title "Search" but was under "My page" button. I did change the toolbar to make it easier to understand. Also when you make a change to the books I had a button called "Change" but few people understood that at the beginning so I just skipped that button and have it like that the user clicks a book in a list the user would go to a detail information about each of the books, the reason for changing this is because so many clicked the "Change" button without selecting any books to change that they got an empty document because user didn't select any book to change or modify.

"It is difficult to find how to search for books, you should make it clearer"

"It is rather strange when I hit "Change" button I can't select any books there to change"

"I think this "Change" button is confusing, is it any better solution"

Few people commented about the insertion of a book in into the database. I fixed some of these comments, but overall they were satisfied about that page of the website. But there was one error in the code in the history of recently added books, it seems that the list is not ordering the date correctly in ascending order, it was problem with the MySQL query, but it was fixed later on.

"The short description box is too small, it would be better to have it bigger so could enter more words"

"It would be nice that you could give a short description where the book is stored e.g. this book is stored up in the attic"

"I can't use the tab key to go between input forms, instead you always go to help link instead of going to the next line"

"I would like to see a confirmation pop up window with the title of the book that you are adding, also if you where adding a magazine or a book"

"I would like to categorize my book as a corpus"

"It is missing the published day of the book"

There was one error in the input form, You could easily input empty string a title by hitting space then add the book. This was easily fixed by trimming the user input before checking if the input form is empty, trimming deletes the space character from the user input.

There were few trouble and comments about the searching of the books. Most of these problems where easy fixes in the code.

"The list that you get when you search for in the past is always updating even though the user has not search for the particular book"

"When I search for a book, it seems that the search is case sensitive, this is problem if the title is written in small letters and I search with capital letters."

"I find it normal that you can enter e.g. two authors in different line to search for either one of these authors"

There were some comment about the main page of NetKiljan, some user found it strange that after you have logged in the login form is still there confusing the user, did he really successfully logged in?

"I found I confusing after I had logged in still get the login form that I can login into the website"

"There is not enough information about this site what the site is all about, need more introduction"

"It would be smart idea to fix the notification with the trouble on the proxy server, rewrite that sentence"

"I'm not happy with when I have logged in I have to push a button to go to my personal page, I would like to automatically go to my page when I have logged in"

In the registration form, there where discussion among the individuals that the user would have to accept terms and condition if they want to register to the website, and it would be stated that their email, phone and other information about the user will not be discriminate against.

I have not yet implemented that yet but I will consider doing that. But here is some modification that I did to improve that page corresponded to the comments.

"Where is the back button?"

"The tap doesn't work well in the form"

Fresh Ideas

Some good ideas came up in the interview some of them would be good thing to implement to make the website better and more useful.

"There is no way to resign account if the user would like to stop using the website"

"How do I get my password back if password is forgotten?"

7. CONCLUSION

7.1. Conclusion

I manage to do some good background research and feasibility evaluation. I also mange to completed the design of the website and produced a working website. Over all the project went pretty well and show this system can be very usable even though it needs more work and testing. Afterthought when I look back it would be smarter to spend little less time on the appearance rather then get the functions of the site to work perfectly.

I manage to build fully functional website from the basic idea that I got in the beginning when I was writing the feasibility report but without some function that I would have like to implement.

The design that I put together before implantation contained; database, layout, content and navigation design but lacked; implementation design or planning the code work as it should be doing as I wanted to do.

Here is the thing that I achieve to do;

- Build database holding data for the website.
- Registrations of new users.
- Secure login.
- User can add book to their database with detail description
- User can search the database
- User can delete, update and maintain their database
- User option and adjustments

Not achieve in terms of original project.

- Marketplace for the users to exchange books or sell books
- Administrator section to manage the site and write news and notifications.
- Password recovery section for the users.

The limitation of the system is only run able on a web server on one server, it is not possible to run it just locally, and it is not intend to be used as a single system. You will have to have internet connection to use the site.

The system cannot be used to record a collection of other material e.g. like video tapes or music CD's though it would be nice to add that function to it.

7.2. Future work

I would have a finish the project of the original project specification and implement full working market place on the website. Also I would have two types of the website, one for adding books other for adding CD's, DVD's and other materials and the user would be able to add pictures of the booklets also. I would have subscription for the website so the users would have to pay some fee to use the site. I think it would be good idea to change also that the system could be installed on a local machine and run only on a intranet, would be good idea for small companies and institutes to have their own local system so their employees or clients could use it.

7.3. Personal reflection

The reason why the project was chosen by me was that I'm very interested in web based system with database interaction along with it. I thing is exciting work to build system that collect and organize data from various type of info and collect it and write it to a database.

I really like to build a good looking websites with ease of use interface that is robust to use and work with. This is my first website on Icelandic and it really took me some time to translate the program to good and clear Icelandic so the user would understand all notifications and commands that the user would like to use to control and manipulate the system.

I learn really much in writing a journal like article paper and fully organized report. It has help me setup a good readable report on the things that I have been doing in my project.

My technical skill has gotten much better to implement good website with interaction to a database, my PHP coding skills are now pretty good and also various type of command talking to the MySQL database.

User interface designing was really fun to tackle in this project, it has really help me knowing how the user is using programs and tools to get the things done what the user is going to achieve tasks.

I also learn to setup a web server and configure it and the router share the website to the internet, there were also some security issues that I had to take care of e.g. the build in firewall on the router and port forwarding techniques.

The highlights of the project is the people that I wanted to get to; people that have passions for books and collecting books, really like this idea of mine and would consider using this website in the future. But I have to admit that these people are few that has test the site, but I'm optimistic that more people would enjoy this website.

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Julian Vanden Broeck

Student at the University of Akureyri, Computer Science department. (Verbal reference, 25 Mars 2009)

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APPENDIX A – CODE LISTING

a. Db.inc

- i. Connects to the database
- ii. Called by all other pages and functions
- iii. If error connecting database, display error.

b. Index.php

- i. The opening page
- ii. PHP function for printing out the books for sell
- iii. PHP function for printing out the books wanted
- iv. PHP function for printing out latest news
- v. Calls counter.php for the counter (Not my code, Author unknown)
- vi. Calls login.php when user attempts to login in.
- vii. Use register.js for help boxes(Code modified by me, not entirely mine)
- viii. Display:
 - 1. Top - Title of the project
 - 2. Left side – Books for sale and books wanted
 - 3. Right side – User login and user register, Calls register.php or search.php. Advertisement logo.
 - 4. Middle – News and information
 - 5. Bottom – Counter and contact information
- ix. PHP function stop user accessing the page through proxy server.
- x. Display username after login (\$username)

- c. Login.php (Code modified by me, not entirely mine).
 - i. Called when the user logs in from the index.php
 - ii. confirmUser(\$username, \$password)
 - 1. Checks the username and password entered with the database
 - iii. checkLogin()
 - 1. Check if user has been remembered
 - 2. Return true if validate, later used in index.php
 - iv. If the user validates
 - 1. Create session id in the cookie
 - 2. Calls the search.php
 - v. If the user does not validate, display error.
- d. Register.php (Code modified by me, not entirely mine).
 - i. Register the user to the website
 - ii. If user validates; addNewUser(\$username, \$password,\$name,\$email,\$address,\$telephone,\$type,\$realpassword)
 - 1. Write his user id and password to the database
 - a. Also encrypt the password for security
 - 2. Write other information about the user to the database
 - 3. Send mail to administrator of that new user, with the information from the user.
 - iii. If the user does not validate, display error and unset all sessions
 - iv. Use formaval.js for the form validation (Code modified by me, not entirely mine)
 - v. Use register.js for help boxes (Code modified by me, not entirely mine).
 - vi. emailTaken(\$email)
 - 1. Checks if the user email is taken
 - 2. If taken, display error
 - vii. usernameTaken(\$username)
 - 1. Checks if the username is taken
 - 2. If taken, display error
 - viii. After register call index.php

e. Insert.php

- i. Contains function related of inserting data into the database
- ii. titleTaken (\$title,\$username)
 - 1. Function for check if the title already exist
- iii. addNewBook(\$title, \$author, \$comment, \$publisher, \$isbn, \$material, \$lang, \$form, \$printed,\$printed_year, \$username)
 - 1. Function for inserting books data into the database
- iv. notEmpty(elem, helperMsg)
 - 1. JavaScript function for evaluating if the user has entered empty string in the title form.
- v. Display the recent added books that the user has written to the database.
- vi. Use register.js for help boxes (Code modified by me, not entirely mine).
- vii. Display
 - 1. Left - Insert form
 - 2. Top - Toolbar
 - 3. Right- List of recent added books

Search.php

- viii. Contains function related of searching the database
- ix. Search(\$search1, \$search2, \$select1, \$select2, \$lang, \$material, \$form, \$username)
 - 1. Search the database with search string from the user.
- x. Prints how many books are currently added to the database.
- xi. Prints history of recent books that the user has search for recently
- xii. Use register.js for help boxes (Code modified by me, not entirely mine).
- xiii. Display
 - 1. Left - Search form
 - 2. Right - Recent search items list
 - 3. Top - Toolbar
- xiv. After hitting search button display a list of books in alphabetic order.
 - 1. The list can be ordered

f. Books.php

- i. Contains detail information about each of the books, user can also delete books and update them.
- ii. displayuserbooks(\$username, \$id).
 - 1. Print out in a form specific information about each book
- iii. deleteBook(\$title, \$id,\$username)
 - 1. Delete individual book from user database
- iv. changeBook(\$title, \$author, \$comment, \$publisher, \$isbn, \$material, \$lang,\$form, \$printed, \$printed_year, \$copy, \$review, \$loan,\$location,\$id,\$username)
 - 1. Alter the information about each book in the database

g. Options.php

- i. Contains details about the user.
- ii. displayUser(\$username)
 - 1. Prints out information about the user
- iii. changeUser(\$email,\$fullname,\$address,\$phone,\$username)
 - 1. Alter information about the user

h. Logout.php

- i. Take care of log the user out of the system
 - ii. Unset the user session and delete it
 - iii. If user is not logged in before, display error.
-
- i. Formval.js (The code is modified to my needs)
 - ii. Takes cares of the form validations
 - ii. If do not validate, display error.

APPENDIX A - The source code

register.php

```

<?php
/*
This has been modified by me; this code is not entirely mine, this code I rewrite from
tutorial and change it to fit my project.
This tutorial was taken from: http://evolt.org/user/62759/track. PHP Login Script (January 25,
2004). by JP (jpmaster77)
*/
session_start();
include('assets/include/db.inc'); //The database connection
/*-----
-----*/
/***
 * Returns true if the username has been taken
 * by another user, false otherwise.
 */
function usernameTaken($username)
{
    global $conn;
    if(!get_magic_quotes_gpc())
    {
        $username = addslashes($username);
    }
    // $q = "SELECT `user_name` from users where `user_name` = '$username'";
    $q = "select user_name from users where user_name = '$username'";
    $result = mysql_query($q,$conn);
    return (mysql_numrows($result) > 0);
}
function emailTaken($email)
{
    global $conn;
    if(!get_magic_quotes_gpc())
    {
        $email = addslashes($email);
    }
    $q = "select email from users where email = '$email'";
    $result = mysql_query($q,$conn);
    return (mysql_numrows($result) > 0);
}
/***
 * Inserts the given (username, password) pair
 * into the database. Returns true on success,
 * false otherwise.
 */
function addNewUser($username, $password,$name,$email,$address,$telephone,$type,$realpassword)
{
    global $conn;
    mysql_query("SET NAMES 'utf8'");
    $q = "INSERT INTO users (user_name,password,email,full_name,address,telephone,user_type)
VALUES ('$username','$password','$email','$name','$address','$telephone','$type')";
    ////////////////////MAIL sent to Admin/////////////////
    $Name = $name; //senders name
    $email = $email; //senders e-mail adress
    $recipient = "netkiljan@internet.is"; //recipient
    $mail_body ="NetKiljan- Nýskráning. \n \n Notenda nafn: " . $username . "\n Password: "
    . $realpassword. "\n email: "
    . $email. "\n ----- \n Nafn: ".$name. "\n Heimilsfang: ".$address."\r\n";
    //mail body
    $subject = "Nýr notendandi: ".$username."\r\n"; //subject
    $header = "From: ". $Name . " <" . $email . ">\r\n"; //optional headerfields
    $header_ = 'MIME-Version: 1.0' . "\r\n" . 'Content-type: text/plain; charset=UTF-8' .
"\r\n";
    mail($recipient, $subject, $mail_body, $header_. $header); //mail command :)
```

```
//////////  

    return mysql_query($q,$conn);  

}  

/**  

 * Displays the appropriate message to the user  

 * after the registration attempt. It displays a  

 * success or failure status depending on a  

 * session variable set during registration.  

 */  

function displayStatus()  

{  

    $uname = $_SESSION['reguname'];  

    if($_SESSION['regresult'])  

    {  

?> 
<h1>Registered!</h1>  

<p>Takk fyrir <b><? echo $uname; ?></b>, skráning þín hefur tekist, þú mátt núna <a href="index.php" title="Login">Skrá þig inn.</a>.</p>  

<?  

    }  

    else{  

?>  

<h1>Registration Failed</h1>  

<p>Því miður tókst ekki að skrá notenda <b><? echo $uname; ?></b>  

Endilega prufið aftur seinna.</p>  

<?  

    }  

    unset($_SESSION['reguname']);  

    unset($_SESSION['registered']);  

    unset($_SESSION['regresult']);  

}  

if(isset($_SESSION['registered'])){  

/**  

 * This is the page that will be displayed after the  

 * registration has been attempted.  

*/  

?>  

<html>  

<title>Nýskrá</title>  

<body>  

<? displayStatus(); ?>  

</body>  

</html>  

<?  

    return;  

}  

/**  

 * Determines whether or not to show to sign-up form  

 * based on whether the form has been submitted, if it  

 * has, check the database for consistency and create  

 * the new account.  

*/  

if(isset($_POST['subjoin']))  

{  

    ///////////////  

    /* Check if username is already in use */  

    if(usernameTaken($_POST['user']))  

    {  

        $use = $_POST['user'];  

        die("Því miður, notendanafnið: <strong>$use</strong> er þegar í notkun prufaðu aftur seinna.");  

?>
        <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />  

<h1>Villa:<br /></h1>  

        Því miður, notendanafnið: <strong><? echo $use; ?></strong> er þegar í notkun prufaðu aftur seinna.  

        <?  

    }  

    if(emailTaken($_POST['email']))  

    {  

        $use = $_POST['email'];  

?>
        <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />  

<h2>Villa:<br /></h2>
```

```

Netfangið: <strong><? echo $use;?></strong> er þegar á skrá hjá okkur.<br />
<a href="register.php" title="Til baka">Til baka</a>
<?
die();
}
/* Add the new account to the database */
$md5pass = md5($_POST['password']);
$_SESSION['reguname'] = $_POST['user'];
$_SESSION['regresult'] = addNewUser($_POST['user'], $md5pass, $_POST['name'],
$_POST['email'],$_POST['address'],$_POST['telephone'],$_POST['type'],$_POST['password']);
$_SESSION['registered'] = true;
echo "<meta http-equiv=\\"Refresh\\" content=\\"0;url=$HTTP_SERVER_VARS[PHP_SELF]\\">";
return;
}
else
{
?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
<meta name="Description" content="Netkiljan - Bókasafnið þitt á netinu" />
<meta name="keywords" content="Bókasafn" />
<title>Netkiljan - Nýskrá notenda</title>
<!--<link href="assets/css/signup.css" type="text/css" rel="stylesheet" />-->
<link href="assets/css/stylesheet.css" type="text/css" rel="stylesheet"/>
<style type="text/css">
</style>
<!-- Mouse Hint -->
<script type="text/javascript" charset="utf-8" src="assets/include/register.js"></script>
<!-- Mouse hint ends -->
<script type="text/javascript" charset="utf-8" src="assets/include/formval.js"></script>
<!-- Validation -->
</head>
<body>
<script type="text/javascript" charset="utf-8">
function validateOnSubmit()
{
    var elem;
    var errs=0;
    // execute all element validations in reverse order, so focus gets
    // set to the first one in error.
    if (!validateEmail (document.forms.demo.email,'inf_email', true))
        errs += 1;
    if (!validatePassword2 (document.forms.demo.password2,'inf_password2', true ))
        errs += 1;
    if (!validatePassword (document.forms.demo.password,'inf_password', true))
        errs += 1;
    if (!validatePresent(document.forms.demo.user, 'inf_from'))
        errs += 1;
    if (errs>1)
        alert('Það þarf að yfirfara betur upplýsingarnar!');
    if (errs==1)
        alert('Það þarf að yfirfara betur!');
    return (errs==0);
};
</script>
<!-- Validation ends -->
<table border="0" id="Border" cellspacing="0" cellpadding="0">
<tr>
<td><table border="0" id="container" cellspacing="0" cellpadding="0">
<tr>
<td id="logo" colspan="3"><a href="index.php"></a></td>
</tr>
<tr>
<td id="main" align="center">
<table width="600" cellspacing="0" cellpadding="5" border="0" align="center">
<tbody>
<tr>
<td id="form"><table width ="600" border="0" cellspacing='2' cellpadding='2' >
<form action="<? echo $HTTP_SERVER_VARS['PHP_SELF']; ?>" name="demo"
method="post" onsubmit="return validateOnSubmit()">
<tr bgcolor="#f1f1f1">

```

```

<td align="center" colspan="2"><font size='3' ><b>Nýskrá</b></td>
    <td> </td>
</tr>
<tr>
    <td>Notenda nafn*</td>
    <td >
        <input type="text" name="user" maxlength="35"
size="30" onchange="validatePresent(this, 'inf_from');"><a href="#" class="hintanchor"
onMouseover="showhint('Hér skrifar þú notenda nafnið þitt. ATH það verður að vera minnst 4
stafir.', this, event, '150px')">Hjálp</a></td>
        <td id="inf_from" width="180">Þarf að fylla út</td>
    </tr>
<tr bgcolor="#f1f1f1">
    <td >Lykilorð*</td>
    <td >
        <input type="password" name="password" maxlength="30"
onChange="validatePassword(this, 'inf_password');"><a href="#" class="hintanchor"
onMouseover="showhint('Hér skrifar þú lykilorðið þitt, ATH það verður að vera minnst 4
stafir.', this, event, '150px')">Hjálp</a></td>
        <td id="inf_password">Þarf að fylla út</td>
    </tr>
<tr>
    <td >Lykilorð aftur*</td>
    <td >
        <input type="password" name="password2"
onChange="validatePassword2(this, 'inf_password2');"><a href="#" class="hintanchor"
onMouseover="showhint('Hér endurtekur þú lykilorðið þitt.', this, event,
'150px')">Hjálp</a></td>
        <td id="inf_password2">Þarf að fylla út</td>
    </tr>
<tr bgcolor="#f1f1f1">
    <td>Netfang*</td>
    <td>
        <input name="email" maxlength="50" id="email" size="30"
onChange="validateEmail(this, 'inf_email', true);><a href="#" class="hintanchor"
onMouseover="showhint('Hér skrifar þú netfangið þitt, staðfestingarpóstur verður sendur á
þetta netfang.', this, event, '150px')">Hjálp</a></td>
        <td id="inf_email">Þarf að fylla út</td>
    </tr>
    <tr >
        <td ><span class="style2">Nafn</span></td>
        <td ><font face='Verdana' size='2'>
            <input type="text" name="name" size="30"><a href="#" class="hintanchor"
onMouseover="showhint('Fullt nafn þitt.', this, event, '150px')">Hjálp</a></td>
        <td>&ampnbsp</td>
    </tr>
    <tr bgcolor="#f1f1f1">
        <td ><span class="style2">Heimilisfang</span></td>
        <td ><font face='Verdana' size='2'>
            <textarea cols="20" rows="1" style="font-family:Verdana font;" name="address"><a href="#" class="hintanchor" onMouseover="showhint('Þú getur
skrifað heimilisfangið á forminu - Hrafnagilsstræti 33 <br> 600 Akureyri. Ísland', this,
event, '200px')">Hjálp</a></td>
        <td>&ampnbsp</td>
    </tr>
    <tr >
        <td ><span class="style2">Símanúmer</span></td>
        <td ><font face='Verdana' size='2'>
            <input type="text" name="telephone"><a href="#" class="hintanchor"
onMouseover="showhint('Símanúmerið þitt á forminu: 5551234', this, event,
'150px')">Hjálp</a></td>
        <td>&ampnbsp</td>
    </tr>
    <tr bgcolor="#f1f1f1">
        <td ><font face='Verdana' size='2' >Notkun</td>
        <td ><font face='Verdana' size='2'>
            <input type='radio' value="einkanota" checked name="type">
            Til einkanota
            <input type='radio' value="fyrirtæki" name="type">
            Fyrirtæki</td>
    <td> </td>
    </tr>
    <tr>
        <td align="center" colspan="3"><div align="center">
            <strong><i>Fyllið út þar sem er stjörnumerkt*</i></strong><br /><br />

```

```

<input type="submit" name="subjoin"
value="&nbsp;&nbsp;&nbsp;&nbsp;Senda&nbsp;&nbsp;&nbsp;" />
    <input type="button" name="back" value="Til baka" onclick="history.go(-1)"
/>
        </div></td>
    </tr>
</table>
</td>
</tr>
</tr>
</tr>
<tr>
    <td id="teljari" colspan="3" border "0">
    </td>
</tr>
</table>
</table>
</body>
</html>
<?
}
?>
```

login.php

```

<?php
/*
This has been modified by me; this code is not entirely mine, this code I rewrite from
tutorial and change it to fit my project.
This tutorial was taken from: http://evolt.org/user/62759/track. PHP Login Script (January 25,
2004). by JP (jpmaster77)
*/
include ("assets/include/db.inc");
/**
 * Checks whether or not the given username is in the
 * database, if so it checks if the given password is
 * the same password in the database for that user.
 * If the user doesn't exist or if the passwords don't
 * match up, it returns an error code (1 or 2).
 * On success it returns 0.
 */
function confirmUser($username, $password) {
    global $conn;
    /* Add slashes if necessary (for query) */
    if(!get_magic_quotes_gpc()) {
        $username = addslashes($username);
    }
    /* Verify that user is in database */
    $q = "select password from users where user_name = '$username'";
    $result = mysql_query($q,$conn);
    if(!$result || (mysql_numrows($result) < 1)) {
        return 1; //Indicates username failure
    }
    /* Retrieve password from result, strip slashes */
    $dbarray = mysql_fetch_array($result);
```

```

$dbarray['password'] = stripslashes($dbarray['password']);
$password = stripslashes($password);
/* Validate that password is correct */
if($password == $dbarray['password']){
    return 0; //Success! Username and password confirmed
}
else{
    return 2; //Indicates password failure
}

}

function checkLogin(){
/* Check if user has been remembered */
if(isset($_COOKIE['cookname']) && isset($_COOKIE['cookpass'])){
    $_SESSION['username'] = $_COOKIE['cookname'];
    $_SESSION['password'] = $_COOKIE['cookpass'];
}
/* Username and password have been set */
if(isset($_SESSION['username']) && isset($_SESSION['password'])){
    /* Confirm that username and password are valid */
    if(confirmUser($_SESSION['username'], $_SESSION['password']) != 0){
        /* Variables are incorrect, user not logged in */
        unset($_SESSION['username']);
        unset($_SESSION['password']);
        return false;
    }
    return true;
}
/* User not logged in */
else{
    return false;
}
}

/**
 * Checks to see if the user has submitted his
 * username and password through the login form,
 * if so, checks authenticity in database and
 * creates session.
 */
if(isset($_POST['sublogin'])){
    /* Check that all fields were typed in */
    if(!$_POST['user'] || !$POST['pass']){
        print "<p><form><input type=\"button\" value=\"Back\" onclick=\"history.go(-1)\"></form>";
        echo "<script language='javascript'>alert('Verður að fylla út báða reiti!');location.replace('index.php') </script>";
        die();
    }
    /* Spruce up username, check length */
    $_POST['user'] = trim($_POST['user']);
    if(strlen($_POST['user']) > 30){
        echo "<script language='javascript'>alert('Notenda nafnið þitt er lengra en 30 stafir, reyndu aftur!');location.replace('index.php')</script>";
        die();
    }
    /* Checks that username is in database and password is correct */
    $md5pass = md5($_POST['pass']);
    $result = confirmUser($_POST['user'], $md5pass);
    /* Check error codes */
    if($result == 1){
        echo "<script language='javascript'>alert('Notenda nafnið þitt eða aðgangsorð eru ekki rétt!');location.replace('index.php') </script>";
        die();
    }
    else if($result == 2){
        echo "<script language='javascript'>alert('Notenda nafnið þitt eða aðgangsorð eru ekki rétt!');location.replace('index.php') </script>";
        die();
    }
    /* Username and password correct, register session variables */
    $_POST['user'] = stripslashes($_POST['user']);

    $_SESSION['username'] = $_POST['user'];
}

```

```

$_SESSION['password'] = $md5pass;

/* Quick self-redirect to avoid resending data on refresh */
echo "<meta http-equiv=\"Refresh\" content=\"0;url=$HTTP_SERVER_VARS[PHP_SELF]\">";
return;
}
/* Sets the value of the logged_in variable, which can be used in your code */
$logged_in = checkLogin();
?>
```

Index.php

```

<?php
session_start();
include ('login.php'); //Include the login to get the logged_in variable and the username.
/*-----
-----*/
/*This is for the counter */
require_once ('assets/counter/counter.php');
do_counter_hit('1');
?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8"/>
<meta name="Description" content="Netkiljan - Bókasafnið þitt á netinu" />
<title>Netkiljan - Bókasafnið þitt á netinu</title>
<link href="assets/css/stylesheets.css" type="text/css" rel="stylesheet"/>
<style type="text/css"></style>
<!-- Mouse Hint. For the help box when will be displayed if you mouse over the help link --&gt;
&lt;script type="text/javascript" charset="utf-8" src="assets/include/register.js"&gt;&lt;/script&gt;
&lt!-- Mouse hint ends --&gt;
&lt;/head&gt;
&lt;body bgcolor="#FFFFFF"&gt;
&lt;title&gt;Netkiljan&lt;/title&gt;
&lt;table border="0" id="Border" cellspacing="0" cellpadding="0"&gt;
&lt;tr&gt;
&lt;td&gt;&lt;table border="0" id="container" cellspacing="0" cellpadding="0"&gt;
&lt;tr&gt;
&lt;td id="logo" colspan="3"&gt;&lt;a href="index.php"&gt;&lt;img width="982" height="60" src="assets/pic/banner.png" alt="Netkiljan" /&gt;&lt;/a&gt;&lt;/td&gt;
&lt;/tr&gt;
&lt;tr&gt;
&lt;td id="left"&gt;&lt;table cellspacing="2" cellpadding="4" height="250" width="200"&gt;
&lt;tr&gt;
&lt;th&gt;Bækur til sölu &lt;img src="assets/pic/rss.gif" width="36" height="14" /&gt;
&lt;/th&gt;
&lt;/tr&gt;
&lt;tr&gt;
&lt;td&gt;&lt;?php
//This is the query for book for sale
mysql_query("SET NAMES 'utf8'"); //Translate the data to icelandic characters.
$result = mysql_query("SELECT * FROM `books_wanted` WHERE sellorbuy = 'sell' ORDER BY `id` DESC"); //search for books that is for marked for sale
$count = 0;
while ($row = mysql_fetch_array($result, MYSQL_ASSOC))
{
    if ($count &lt; 3)
    {
        print "&lt;strong&gt;" . $row{'title'} . "&lt;/strong&gt;&lt;br&gt;" . "&lt;i&gt;" . $row{'ad'} . "&lt;/i&gt;" .
        $row{'plo'} . "&lt;br&gt;&lt;br&gt;";
        $count++;
    }
}

if ($count == "0")
{</pre>

```

```

        print "<br/>Engar bækur til sölu!<br/>"; //Print if no books are found for sale
    }
    //query ends for books for sale
?>
        </td>
    </tr>
</table></td>
<td rowspan="2" id="main" width ="600" ><hr />
<strong>Um síðuna:</strong>
<hr />
<br />
Netkiljan er skemmtileg síða þar sem þú getur skráð þína bækur á þitt eigið
bóksafn á netinu.
Þú einfaldlega skráir þig inn og byrjar að skrá bækurnar eða timarit í gagnagrunn
og getur síðan
leitað eftir þeim seinna þegar þér hentar. Endilega skráðu þig inn strax í dag!
<br />
<hr />
<strong>Fréttir: </strong>
<hr />
<br />
<?php
//This query is for the news section
mysql_query("SET NAMES 'utf8'"); //Translate the data to icelandic characters.
$result = mysql_query("SELECT * FROM `frettir` ORDER BY `id` DESC");
$count = 0;
while ($row = mysql_fetch_array($result, MYSQL_ASSOC))
{
    $date = $row['timestamp'];
    list($year, $day, $month) = split('/.-. ', $date); //Split the date format into year day
month
    if ($count < 5)
    {
        echo "<strong>" . $row['title'] . " - " . "<i>" . $year . "</i></strong><br/>" .
        $row['news'] . "<br/><br/>";
        $count++;
    }
}
// query ends.
?>
        <hr />
    </td>
    <td id="right"><table cellspacing="1" cellpadding="3" border="0" align="center"
height="250">
        <?php
/*Check if the computer is behind proxy server. If behind proxy dont display login section
If the computer is direct connect to the internet, allow login */
if ($_SERVER["HTTP_X_FORWARDED_FOR"] || $_SERVER["HTTP_VIA"] || $_SERVER["HTTP_CLIENT_IP"])
{
?>
        <tr>
            <td> Því miður er ekki hægt að skrá sig inn!<br/>
            Tölvun þín er bak við proxy þjón<br/>
            Þetta er gert út af öryggisástæðum.<br/>
            <br />
            <center>
                <strong>Endilega skráðu þig inn annarstaðar.</strong>
            </center></td>
        </tr>
        <?
    } else
    {
        if ($logged_in)//Only if the logged_in variable is true then display the buttons
        {
            echo "<tr >";
            echo '<td id="login" colspan= "2">';
            echo "<center>Velkomin(n): <strong>" . $username . "</strong></center><br><br>';
        ?>
            <center>
                <a href="search.php">

```

```

        </a> <a href="logout.php"> </a>
            </center>
            <?
            echo "</td>";
            echo "</tr>";
        } else
        {
    ?>
        <tr>
            <td colspan ="2"><div align="center">Þú getur nýskráð þig á vefinn
hér</div></td>
            </tr>
            <tr>
                <td colspan="2"><a href="register.php">
                    </a><a href="#" class="hintanchor" onmouseover="showhint('Þú ýtir á nýskrá til
að skrá þig á vefinn og fyllir út nauðsynilegar upplýsingar til að
gerast áskrifandi af vefnum.', this, event,
'150px')">Hjálp</a></td>
                </tr>
                <tr>
                    <td colspan ="2"><hr/></td>
                </tr>
                <tr>
                    <td>
                        <form method="post" action="" >
                    </td>
                    <tbody>
                        <tr>
                            <td><strong>Innskráning</strong></td>
                        </tr>
                    </tbody>
                    <tbody>
                        <tr>
                            <td><strong>Notandi:</strong></td>
                            <td><input tabindex="1" type="text" name="user" class="bginput" size="15"/>
                        </td>
                    </tr>
                </tbody>
                <tbody>
                    <tr>
                        <td><strong>Lykilorð:</strong> </td>
                        <td><input tabindex="2" type="password" name="pass" class="bginput"
size="15"/></td>
                    </tr>
                </tbody>
                <tbody>
                    <tr>
                        <td>&nbsp;</td>
                        <td><a href="#" class="hintanchor" onmouseover="showhint('Hér skrifar þú
notenda nafnið þitt og lykilorðið þitt.', this, event, '150px')">Hjálp</a></td>
                    </tr>
                </tbody>
                <tbody>
                    <tr>
                        <td align="center" colspan="2"><input type="submit" value="Innskrá"
name="sublogin" />
                            <input type="reset" value="Hreinsa" />
                        </td>
                    </tr>
                </tbody>
            </table>
        
```

```

<tbody>
<tr>
    <td colspan="2" align="left"></td>
    <?php
        } //Ends the else clause
        } //Ends second the else clause
    ?>
</tr>
</tbody>
</tr>
</table>
</form>
</td>
</tr>
<tr>
    <td id="left2"><table cellspacing="2" cellpadding="2" height="250" width="200">
        <tr>
            <th>Bækur óskast </th>
        </tr>
        <tr>
            <td>&nbsp;</td>
        </tr>
        <tr>
            <td><?php
//This is where the books are wanted
mysql_query("SET NAMES 'utf8'"); //Translate the data to icelandic characters.
$result2 = mysql_query("SELECT * FROM `books_wanted` WHERE sellorbuy = 'buy' ORDER BY `id` DESC"); // Select only books that is wanted
$count2 = 0;
while ($row = mysql_fetch_array($result2, MYSQL_ASSOC))
{
    if ($count2 < 3)
    {
        print "<strong>" . $row['title'] . "</strong><br> " . "<i>" . $row['ad'] . "</i>" . $row['something'] . "<br><br>";
        $count2++;
    }
}
if ($count == "0")
{
    print "<br/>Engar bækur<br/>";
}
//Ends wanted query
?>
            </td>
        </tr>
    </table></td>
    <td id="right2"><div align="center"></div></td>
</tr>
<tr>
    <td id="teljari" colspan="3"><p>Heimsóknir:<br>
    <?php
//Display the counter at the bottom
show_counter('1');
//Note this code is not mine. This code i got from tutorial on the internet. Author unknown.
?>
            </p></td>
        </tr>
    </table></td>
</tr>
<tr>
    <td id="prg" colspan="4"><p>NetKiljan - Bókasafnið þitt á netinu <br/>
        <a href="mailto:netkiljan@internet.is">- Póstur -</a> </p></td>
    </tr>
</table>
</body>
</html>

```

Insert.php

```

<?php
session_start();
require_once("login.php");
//include ("assets/include/db.inc");
///////////////
if ($logged_in)
{
    displayuser($username);
    $_SESSION['page']="insert.php"; //Puts this page to the session to remember where it was
before so you call the back button to read from the session
} else
    echo "not logged in";
function displayuser($username) //Only display this page if the user has logged into the site,
for security of the site.
{
?
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8"/>
<meta name="Description" content="Netkiljan - Bókasafnið þitt á netinu"/>
<meta name="keywords" content="Bókasafn" />
<title>Netkiljan - Bókasafnið þitt á netinu</title>
<link href="assets/css/stylesheet.css" type="text/css" rel="stylesheet"/>
<style type="text/css">
body{font-family:"Lucida Sans Unicode", "Lucida Grande", Verdana, Arial, Helvetica, sans-serif; font-size:12px; color:#555555;}
div.main{margin:3px auto; width:130px;}
table.sortable{border:0; padding:0; margin:auto;}
table.sortable td{padding:4px; width:auto; border-bottom:solid 1px #DEDEDE;}
table.sortable th{padding:4px;}
table.sortable thead{background:#e3edef; color:#333333; text-align:left;}
table.sortable tfoot{font-weight:bold; }
table.sortable tfoot td{border:none;}
</style>
<style type="text/css">
/* GLOBALHEADER */
#globalheader { width: 982px; height: 38px; margin: 4px auto; position: relative; z-index: 998; }
#globalheader #globalnav { margin: 0; padding-left: 21px; }
#globalheader #globalnav li { display: inline; }
#globalheader #globalnav li a { float: left; width: 117px; height: 0; padding-top: 38px; overflow: hidden; }
#globalheader #globalnav li a,
#globalheader #globalmynav { background-image: url(assets/pic/images/globalnavbg.png); background-image: url(assets/pic/images/globalnavbg.gif); background-repeat: no-repeat; }
/* BUTTONS */
#globalheader #globalnav li#gnav-mynav a { background-position: 0 0; }
#globalheader #globalnav li#gnav-mynav a { background-position: -117px 0; }
#globalheader #globalnav li#gnav-search a { background-position: -234px 0; }
#globalheader #globalnav li#gnav-input a { background-position: -351px 0; }
#globalheader #globalnav li#gnav-options a { background-position: -468px 0; }
#globalheader #globalnav li#gnav-options2 a { background-position: -585px 0; }
#globalheader #globalnav li#gnav-options3 a { background-position: -702px 0; }
#globalheader #globalnav li#gnav-logout a { background-position: 100% 0; }
/* OVER STATES */
#globalheader #globalnav li#gnav-heim a:hover { background-position: 0 -38px; }
#globalheader #globalnav li#gnav-mynav a:hover { background-position: -117px -38px; }
#globalheader #globalnav li#gnav-search a:hover { background-position: -234px -38px; }
#globalheader #globalnav li#gnav-input a:hover { background-position: -351px -38px; }
#globalheader #globalnav li#gnav-options a:hover { background-position: -468px -38px; }
#globalheader #globalnav li#gnav-logout a:hover { background-position: 100% -38px; }
/* PRESSED STATES */
#globalheader #globalnav li#gnav-heim a:active { background-position: 0 -76px; }
#globalheader #globalnav li#gnav-mynav a:active { background-position: -117px -76px; }
#globalheader #globalnav li#gnav-search a:active { background-position: -234px -76px; }
#globalheader #globalnav li#gnav-input a:active { background-position: -351px -76px; }
#globalheader #globalnav li#gnav-options a:active { background-position: -468px -76px; }

```

```

#globalheader #globalnav li#gn-logout a:active{ background-position: 100% -76px; }
/* ON STATES */
#globalheader.home #globalnav li#gn-heim a:hover { background-position: 0 0; cursor: default; }
#globalheader.mypage #globalnav li#gn-mypage a { background-position: -117px -114px !important; }
#globalheader.search #globalnav li#gn-search a { background-position: -234px -114px !important; }
#globalheader.input #globalnav li#gn-input a { background-position: -351px -76 !important; }
/skóða betur
#globalheader.options #globalnav li#gn-options a { background-position: -468px -114px !important; }
</style>

<script type="text/javascript" charset="utf-8" src="assets/include/register.js"></script>

<script type="text/javascript" charset="utf-8">
function notEmpty(elem, helperMsg) // If user input empty string into the title, then notify the user of a error
{
    if(elem.value.length == 0)
    {
        alert(helperMsg);
        elem.focus();
        return false;
    }
    return true;
}
</script>
</head>
<body>
<table border="0" id="Border" cellspacing="0" cellpadding="0">
<tr>
<td><table border="0" id="container" cellspacing="0" cellpadding="0">
<tr>
<td id="logo" colspan="3"><a href="index.php"></a></td>
</tr>
<tr>
<td>
<div id="globalheader">
<ul id="globalnav">
<li id="gn-heim"><a href="index.php"></a></li>
<li id="gn-mypage"><a href="search.php"></a></li>
<li id="gn-search"><a href="insert.php"> </a></li>
<li id="gn-input"><a href="sell.php"></a></li>
<li id="gn-options"><a href="options.php"></a></li>
<li id="gn-options2"><a></a></li>
<li id="gn-options3"><a></a></li>
<li id="gn-logout"><a href="logout.php">logout</a></li>
</ul>
</div>
</td>
</tr>
<?php
/*
This function add new books to the database, takes all the variables that the user has enter.
*/
function addNewBook($title, $author, $comment, $publisher, $isbn, $material, $lang,
    $form, $printed, $printed_year, $username)
{
    $titletrim = trim($title);
    if (!empty($titletrim))
    {
        $mydate = strtotime("now");
        $mydate = date("d/m/Y G:i", $mydate);
        global $conn;
        mysql_query("SET NAMES 'utf8'"); // icelandic characters
        $q = "INSERT INTO books
(date,owner,title,author,comment,publisher,isbn,material,lang,form,printed,printed_year)
VALUES
('$mydate','$username','$title','$author','$comment','$publisher','$isbn','$material','$lang',
'$form','$printed','$printed_year')";
        echo '<script language="javascript">alert("'.$title.' hefur verið skráð í bókasafnið þitt!")</script>';
        return mysql_query($q, $conn);
    }
}

```

```

}

function titleTaken($title,$username) //Checks if the title is all ready taken
{
    mysql_query("SET NAMES 'utf8'"); //Translate the data to icelandic characters.
    global $conn;
    $sq = "select * from books where title = '$title' AND owner LIKE '$username'";
    $result = mysql_query($q, $conn);
    return (mysql_numrows($result) > 0); //Return if its true or false
}
if (isset($_POST['subinsert'])) // If the user has hit the insert button
{
    if (titleTaken($_POST['title'],$username)) //Gets the reauslt from the function, if
true then display that the title has all ready been added
    {
        $title = $_POST['title'];
        echo "<script>";
        echo "window.alert('Því miður '$title.' hefur þegar verið skráð. Reyndu
Aftur!');"; // Display warning
        echo "history.back();";
        echo "</script>";
        die();
    } else
    {
        //If the title doesnt not exist then pass the the data from the form to the
addNewBook function
        addNewBook($_POST['title'], $_POST['author'], $_POST['comment'],
$_POST['publisher'],
$_POST['isbn'], $_POST['material'], $_POST['lang'], $_POST['form'],
$_POST['printed'],$_POST['printed_year'],
$username);
        echo "<meta http-equiv=\"Refresh\"
content=\"0;url=$HTTP_SERVER_VARS[PHP_SELF]\\">";
        return;
    }
}
?>
<tr>
<td align="center">
<form action=<?
    echo $HTTP_SERVER_VARS['PHP_SELF'];
?>" method="post">
<table width="600" border="0" cellspacing="2" cellpadding="2" align="center">
<tr>
<td>
<table align="center" cellspacing="5" cellpadding="6">
</td>
<tr>
<th colspan="3">Skrá bók</th>
</tr>
<tr>
<td colspan="3"><hr/></td>
</tr>
<tr>
<td >Titill: *</td>
<td ><input tabindex="1" type="text" name="title" maxlength="50" size="50"
id='req1' /></td>
<td ><a href="#" class="hintanchor" onMouseover="showhint('Titill á bók.', this,
event, '150px')">Hjálp </td>
</tr>
<tr>
<td>Höfundur:</td>
<td><input tabindex="2" type="text" name="author" maxlength="50" size="50" /></td>
<td><a href="#" class="hintanchor" onMouseover="showhint('Hér skrifar þú inn höfund
efnis, td. Halldór Laxness.', this, event, '150px')">Hjálp</td>
</tr>
<tr>
<td height="35">Stutt Lýsing:</td>
<td height="35"><textarea tabindex="3" rows="3" cols="45"
name="comment"></textarea></td>
<td height="35"><a href="#" class="hintanchor" onMouseover="showhint('Hér getur þú
skrifað inn stutta lýsingu á bókinni eða tímaritinu, t.d um hvað hún fjallar ofl.', this,
event, '150px')">Hjálp</td>
</tr>
<tr>
<td>Efni:</td>
<td><select tabindex="4" name="material" size="1">
<option>Annað</option>

```

```

<option>Barna og ungingabækur</option>
<option>Listir og ljósmyndir</option>
<option>Handbækur</option>
<option>Skáldsaga</option>
<option>Ritsöfn</option>
    <option>Matur og drykkur</option>
<option>Tölvubækur</option>
    <option>Hljóðbækur</option>
        <option>Fræðibók</option>
        <option>Ævisögur og endurminningar</option>
    </select></td>
<td><a href="#" class="hintanchor" onMouseover="showhint('Hér velur þú flokk sem
bókinn getur flokkast undir.', this, event, '150px')">Hjálp</td>
</tr>
<tr>
    <td>Tungumál:</td>
    <td><select tabindex="5" name="lang" size="1">
        <option>Íslenska</option>
        <option>Danska</option>
        <option>Enska</option>
        <option>Annað</option>
    </select></td>
    <td><a href="#" class="hintanchor" onMouseover="showhint('Hér velur þú það tungumál
sem hún er skrifuð á.', this, event, '150px')">Hjálp</td>
</tr>
<tr>
    <td>Form:</td>
    <td>
        <input tabindex="8" type="radio" name="form" checked="" value="Bók"/><font
size="2">Bók<input type="radio" name="form" value="Tímarit"/>Tímarit
        <input tabindex="9" type="radio" name="form" value="Annað" />Annað
    </td>
    <tr>
        <td>Útgáfustaður/ár:</td>
        <td>
            Staður:
            <select tabindex="10" name="printed" size="1">
                <option>
                </option>
                <option>Akureyri</option>
                <option>Reykjavík</option>
                <option>Erlendis</option>
            </select>
            Ár:
            <input tabindex="11" type="text" name="printed_year" maxlength="4"
size="4" />
        </td>
        <td>
            <font size="2"><a href="#" class="hintanchor" onMouseover="showhint('Útgáfuár
bókar', this, event, '150px')">Hjálp</td>
        </tr>
        <tr>
            <td colspan="3"><input tabindex="12" type="submit" name="subinsert"
value="&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;Skrá&nbsp;&nbsp;&nbsp;&nbsp;">
            <input type="reset" value="Hreinsa"/></td>
        </tr>
        <tr>
            <td colspan="2" style="text-align: right;">*ATH það verður lágmark að fylla út titil fyrir hverja bók!</td>
        </tr>
    </table>
    <td>
        <table width="250" border="0" cellspacing="2" cellpadding="2" >
        <tr>
            <th align="center">Nýlega skráðar bækur</th>
        </tr>
        <tr>
            <td><hr /></td>
        </tr>
        <tr>
            <td height="364">
                <?php
                    /* Display all the recent added book that the user has written to the database and order
                    it in time order*/
                    mysql_query("SET NAMES 'utf8'"); //Translate the data to icelandic characters.
                    $q = mysql_query("SELECT * FROM books WHERE owner='$username' ORDER BY STR_TO_DATE(date,
                    '%d/%m/%y') DESC");
                    echo "<table class='sortable'>";
                </?>
            </td>
        </tr>
    </table>

```

```
echo "<thead>";
echo "<tr><th>Nr.</th> <th>Titill</th><th>Skráð þann</th></tr>";
echo "</thead>";
echo "<tbody>";
while ($row = mysql_fetch_array($q, MYSQL_ASSOC))
{
    $date = $row['date'];
    list($day, $month, $year,) = split('[-. ]', $date);
    $id=$row['id'];
    $count++;
    if ($count < 14)
    {
        echo "<tr><td>" . $count . "</td><td><a href='books.php?id=$id'>" . $row{"title"} .
        "</td><td>$day."/". $month."/". $year."</td></tr>"; //User can click on each book to get
        detail info about each book
    }
    if (empty($row))
        echo "Engar bækur á skrá.";
}
echo "</tbody>";
echo "<tfoot>";
echo "<tr><td colspan='3'>Þú getur smellt á bók til að skoða nánar eða
breyta.</td></tr>";
echo "</tfoot>";
?>
</td>
</tr>
</table>
</td>
</tr>
</form>
</table>
</td>
</tr>
</td height="20"> </td>
</tr>
</table>
<tr>
<td id="prg" colspan="4"> <p>NetKiljan - Bókasafnið þitt á netinu
<br/>
<a href="mailto:netkiljan@internet.is">- Póstur -</a> </p></td>
</tr>
</body>
</html>
<?php
?>
```

Search.php

```
<?php
session_start();
require_once('login.php');
if ($logged_in)
{
    $_SESSION['page']="search.php"; //Puts this page to the session to remember where it was
before so you call the back button to read from the session
    displayuser($username);
} else
    echo "not logged in"; //prints out that you were not logged in if the logged_in variable is
false
function displayuser($username) //Only display this page if the user has logged into the site,
for security of the site.
{
?
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8"/>
<meta name="Description" content="Netkiljan - Bókasafnið þitt á netinu"/>
<meta name="keywords" content="Bókasafn" />
<title>Netkiljan - Bókasafnið þitt á netinu</title>
<link href="assets/css/stylesheets.css" type="text/css" rel="stylesheet"/>
<!-- This is the CSS for the sorting of the table.
This is not my code it was gotten from a tutorial from the internet -->
<style type="text/css">
body{font-family:"Lucida Sans Unicode", "Lucida Grande", Verdana, Arial, Helvetica, sans-serif; font-size:12px; color:#555555;}
div.main{margin:3px auto; width:130px;}
table.sortable{border:0; padding:0; margin:auto;}
table.sortable td{padding:4px; width:auto; border-bottom:solid 1px #DEDEDE;}
table.sortable th{padding:4px;}
table.sortable thead{background:#e3edef; color:#333333; text-align:left;}
table.sortable tfoot{font-weight:bold; }
table.sortable tfoot td{border:none;}
</style>
<script src="assets/include/sorttable.js" type="text/javascript"></script>
<!-- CSS and Javascripts for sorting table ends-->
<script type="text/javascript">
/*This function is for adding special characters to the search string
This script was reference from www.gegnir.is.
*/
function addLetter(fieldID, letter)
{
    // bæta íslenska stafinum við
    document.getElementById(fieldID).value = document.getElementById(fieldID).value +
letter;
    // focus á input box
    document.getElementById(fieldID).focus();
}
</script>
<!-- CSS for the toolbar begins -->
<style type="text/css">
/* GLOBALHEADER */
#globalheader { width: 982px; height: 38px; margin: 4px auto; position: relative; z-index: 9998; }
#globalheader #globalnav { margin: 0; padding-left: 21px; }
#globalheader #globalnav li { display: inline; }
#globalheader #globalnav li a { float: left; width: 117px; height: 0; padding-top: 38px; overflow: hidden; }
#globalheader #globalnav li a,
#globalheader #globalmypage { background-image: url(assets/pic/images/globalnavbg.png); background-image: url(assets/pic/images/globalnavbg.gif); background-repeat: no-repeat; }
/* BUTTONS */
#globalheader #globalnav li#gn-mypage a { background-position: 0 0; }
#globalheader #globalnav li#gn-mypage a { background-position: -117px 0; }
#globalheader #globalnav li#gn-search a { background-position: -234px 0; }
#globalheader #globalnav li#gn-input a { background-position: -351px 0; }
```

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#globalheader #globalnav li#gn-options a { background-position: -468px 0; }
#globalheader #globalnav li#gn-options2 a { background-position: -585px 0; }
#globalheader #globalnav li#gn-options3 a { background-position: -702px 0; }
#globalheader #globalnav li#gn-logout a { background-position: 100% 0; }
/* OVER STATES */
#globalheader #globalnav li#gn-heim a:hover { background-position: 0 -38px; }
#globalheader #globalnav li#gn-mypage a:hover { background-position: -117px -38px; }
#globalheader #globalnav li#gn-search a:hover { background-position: -234px -38px; }
#globalheader #globalnav li#gn-input a:hover { background-position: -351px -38px; }
#globalheader #globalnav li#gn-options a:hover { background-position: -468px -38px; }
#globalheader #globalnav li#gn-logout a:hover { background-position: 100% -38px; }
/* PRESSED STATES */
#globalheader #globalnav li#gn-heim a:active { background-position: 0 -76px; }
#globalheader #globalnav li#gn-mypage a:active { background-position: -117px -76px; }
#globalheader #globalnav li#gn-search a:active { background-position: -234px -76px; }
#globalheader #globalnav li#gn-input a:active { background-position: -351px -76px; }
#globalheader #globalnav li#gn-options a:active { background-position: -468px -76px; }
#globalheader #globalnav li#gn-logout a:active { background-position: 100% -76px; }
/* ON STATES */
#globalheader.home #globalnav li#gn-heim a:hover { background-position: 0 0; cursor: default; }
}
#globalheader.mypage #globalnav li#gn-mypage a { background-position: -117px -114px !important; }
#globalheader.search #globalnav li#gn-search a { background-position: -234px -114px !important; }
#globalheader.input #globalnav li#gn-input a { background-position: -351px -76!important; }
#globalheader.options #globalnav li#gn-options a { background-position: -468px -114px !important; }
</style>
</head>
<body>
<table border="0" id="Border" cellspacing="0" cellpadding="0">
<tr>
<td><table border="0" cellpadding="0" cellspacing="0" id="container">
<tr>
<td id="logo" colspan="3"><a href="index.php"></a></td>
</tr>
<tr>
<td>
<div id="globalheader">
<ul id="globalnav">
<li id="gn-heim"><a href="index.php"></a></li>
<li id="gn-mypage"><a href="search.php"></a></li>
<li id="gn-search"><a href="insert.php" > /a </a></li>
<li id="gn-input"><a href=""></a></li>
<li id="gn-options"><a href="options.php"></a></li>
<li id="gn-options2"><a></a></li>
<li id="gn-options3"><a></a></li>
<li id="gn-logout"><a href="logout.php">logout</a></li>
</ul>
</div>
</td>
</tr>
<tr>
<td height="400px">
<table width="600" border="0" align="center" cellpadding="2" cellspacing="2">
<?php
/*
This function is called when the user hits the search button, it takes the variables from the
form among other
*/
function search($search1, $search2, $select1, $select2, $lang, $material, $form,
$username)
{
    global $conn;
    $mydate = strtotime("now"); //Get the current time
    $mydate = date("d/m/Y/G/i", $mydate); //Store it in a day, month, year and time
format
    $x = 0; //Initialize the counter to zero
    $i = 0; //Initialize the counter to zero
    mysql_query("SET NAMES 'utf8'"); //Translate the data to icelandic characters.
    if ($form == "allt" && $material != "all") //If the user has not narrowed
the search down by the form or the material
    {
        $q = mysql_query("SELECT * FROM books WHERE owner = '$username' AND material LIKE
'$material' ORDER BY '$select1' DESC");
    }
}

```

```

        $total = mysql_num_rows($q);
    } else if
        ($lang != "all" && $material != "all") //User has defined the language and
the material
    {
        $q = mysql_query("SELECT * FROM books WHERE owner = '$username' AND lang LIKE
'$lang' AND material LIKE '$material' AND form LIKE '$form' ORDER BY '$select1' DESC");
        $total = mysql_num_rows($q);
    } else
        if ($material != "all" && $lang == "all") //User has defined the material but the
language doesnt matter
    {
        $q = mysql_query("SELECT * FROM books WHERE owner = '$username' AND material
LIKE '$material' AND form LIKE '$form' ORDER BY '$select1' DESC");
        $total = mysql_num_rows($q);
    } else
        if ($material == "all" && $lang != "all") //The material doesnt matter but the
user has defined the language
    {
        $q = mysql_query("SELECT * FROM books WHERE owner = '$username' AND lang
LIKE '$lang' AND form LIKE '$form' ORDER BY '$select1' DESC");
        $total = mysql_num_rows($q);
    } else
        if ($form != "allt") // The form doesnt matter
    {
        $q = mysql_query("select * from books where owner = '$username' AND
form LIKE '$form' ORDER BY '$select1' DESC");
    } else
    {
        $q = mysql_query("select * from books where owner = '$username' ORDER
BY '$select1' DESC");
    }
        if (!empty($search1) && empty($search2)) //If the user has only fill
the in the first input field.
    {
        echo "<table class='sortable'>";
        echo "<thead>";
        echo "<tr><th>Nr.</th><th>Titill</th><th>Höfundur</th><th>Útgáfu
ár</th><th>Form</th><th>Innihald</th><th>Tungumál</th><th>Skráð þann</th><th>Inn/Úti
</th></tr>";
        echo "</thead>";
        echo "<tbody>";
        $x += 1; //get the increment right
        while ($row = mysql_fetch_array($q, MYSQL_ASSOC))
        {
            $i += 1;
            if ((similar_text($row{"$select1"}, "$search1", $percent)))// all
characters to non-case sensitive. Comparing the to search strings and calculate
the how much is alike in percent
            {
                if ($percent > 40)
                {
                    mysql_query("update books SET lastsearch = '$mydate' WHERE
title = '" . $row{
                    'title'} . "'");
                    $id = $row{'id'};
                    $loan = $row{'loan'};
                    if($loan == "1") //If the
book is marked 1 then its not in loan somewhere, Prints the book is available
                    $loan = "Inni";
                    else
                    $loan = "Úti";
                    echo "<tr><td>" . $x .
                "</td><td><a href='books.php?id=$id'" . $row{'title'} .
                    "</a></td><td>" . $row{'author'} . "</td><td>" .
                    $row{'printed_year'} .
                    "</td><td>" . $row{
                    'material'} . "</td><td>" . $row{
                    'form'} . "</td><td>" .
                    $loan . "</td></tr>";
                    $x += 1;
                }
            }
            echo "</tbody>";
            echo "<tfoot>";
            if ($x == 0)

```

```

echo "<tr><td style='background-color:gray' colspan='9'>Ekkert
fannst</td></tr>";
else
{
    $x -= 1; //get the total right
    echo "<tr><td style='background-color:gray' colspan='9'>Fann:
$x/$i </td></tr>";
}
echo "<tr><td colspan='7'><FORM><INPUT TYPE='BUTTON' VALUE='Til Baka'
ONCLICK='history.go(-1)'></FORM></td></tr>"; //Back button
echo "</tfod>";
}
if (!empty($search1) && !empty($search2)) // If the user has fill out both the input
form
{
    echo "<table class='sortable'>";
    echo "<thead>";
    echo "<tr><th>Nr.</th><th>Titill</th><th>Höfundur</th>
<th>Form</th><th>Innihald</th><th>Tungumál</th><th>Skráð þann</th><th>Inn/Úti</th></tr>";
    echo "</thead>";
    echo "<tbody>";
    $x += 1; //get the increment right
    while ($row = mysql_fetch_array($q, MYSQL_ASSOC))
    {
        $i += 1;
        if ((similar_text($row{"$select1"}, "$search1", $percent)) &&
(similar_text($row{
        "$select2"}, "$search2", $percent3))) //Comparing the two strings from the
input fields.
        {
            if ($percent > 40 || $percent3 > 40)
            {
                mysql_query("update books SET lastsearch = '$mydate' WHERE title = ''".
$row{
                'title'} . "''");
                $id = $row{'id'};
                $loan = $row{'loan'};
                if($loan == "1")
                    $loan = "Inni";
                else
                    $loan = "Úti";
                echo "<tr><td>" . $x . "</td><td><a href='books.php?id=$id'>" .
$row{'title'} . "</td><td>" . $row{'author'} . "</td><td>" . $row{'form'} .
"</td><td>" . $row{'material'} . "</td><td>" . $row{'lang'} . "</td><td>" .
$row{'date'} . "</td><td>" . $loan . "</td></tr>";
                $x += 1;
            }
        }
        echo "</tbody>";
        echo "<tfod>";
        if ($x == 0)
            echo "<tr><td style='background-color:gray' colspan='8'>Ekkert
fannst</td></tr>";
        else
            echo "<tr><td style='background-color:gray' colspan='8'>Fann: $x/$i
</td></tr>";
        echo "<tr><td colspan='7'><FORM><INPUT TYPE='BUTTON' VALUE='Til Baka'
ONCLICK='history.go(-1)'></FORM></td></tr>";
        echo "</tfod>";
    }
    if (empty($search1) && empty($search2)) // If the user has not fill out either the
input form
    {
        echo "<table class='sortable'>";
        echo "<thead>";
        echo "<tr><th>Nr.</th><th>Titill</th><th>Höfundur</th>
<th>Form</th><th>Innihald</th><th>Tungumál</th><th>Skráð þann</th><th>Inn/Úti</th></tr>";
        echo "</thead>";
        echo "<tbody>";
        $x += 1; //get the increment right
        while ($row = mysql_fetch_array($q, MYSQL_ASSOC))
        {
            $i += 1;

```

```

$ido = $row{'id'};
$loan = $row{'loan'};
if($loan == "1")
    $loan = "Inni";
else
    $loan = "Úti";
echo "<tr><td>" . $x . "</td><td><a href='books.php?id=$ido'>" . $row{'title'} .
    "</td><td>" . $row{'author'} . "</td><td>" . $row{'form'} . "</td><td>" .
    "</td><td>" . $row{'material'} . "</td><td>" . $row{'lang'} . "</td><td>" . $row{'date'} .
    "</td><td>" . $loan .
    "</td></tr>";
    $x += 1;
}
echo "</tbody>";
echo "<tfoot>";
if ($x == 0)
    echo "<tr><td style='background-color:gray' colspan='8'>Ekkert
fannst</td></tr>";
else
{
    $x -= 1; //get the total right
    echo "<tr><td style='background-color:gray' colspan='8'>Fann: $x/$i
</td></tr>";
}
echo "<tr><td colspan='7'><FORM><INPUT TYPE='BUTTON' VALUE='Til Baka'
ONCLICK='history.go(-1)'></FORM></td></tr>";
echo "</tfoot>";
if (empty($search1) && !empty($search2)) // If the user has only fill out the last
input field.
{
    echo "<table class='sortable'>";
    echo "<thead>";
    echo "<tr><th>Nr.</th><th>Titill</th><th>Höfundur</th>
<th>Form</th><th>Innihald</th><th>Tungumál</th><th>Skráð þann</th><th>Inn/Úti</th> </tr>";
    echo "</thead>";
    echo "<tbody>";
    $x += 1; //get the increment right
    while ($row = mysql_fetch_array($q, MYSQL_ASSOC))
    {
        $i += 1;
        if ((similar_text($row{"$select2"}, "$search2", $percent)))
        {
            if ($percent > 40)
            {
                mysql_query("update books SET lastsearch = '$mydate' WHERE title = '" .
. $row{
                    'title' . "' ");
                $ido = $row{'id'};
                $loan = $row{'loan'};
                if($loan == "1")
                    $loan = "Inni";
                else
                    $loan = "Úti";
                echo "<tr><td>" . $x . "</td><td><a href='books.php?id=$ido'>" . $row{'title'} .
                    "</td><td>" . $row{'author'} . "</td><td>" . $row{'form'} .
                    "</td><td>" . $row{'material'} . "</td><td>" . $row{'lang'} . "</td><td>" . $row{'date'} .
                    "</td><td>" . $loan .
                    "</td></tr>";
                    $x += 1;
                }
            }
        }
    }
    echo "</tbody>";
    echo "<tfoot>";
    if ($x == 0)
        echo "<tr><td style='background-color:gray' colspan='8'>Ekkert
fannst</td></tr>";
    else
    {
        $x -= 1; //get the total right
        echo "<tr><td style='background-color:gray' colspan='8'>Fann: $x/$i
</td></tr>";
    }
}

```

```

        }
        echo "<tr><td colspan='7'><FORM><INPUT TYPE='BUTTON' VALUE='Til Baka'
ONCLICK='history.go(-1)'></FORM></td></tr>";
        echo "</tfod>";
    }
}
?></td></tr>
<?
if (isset($_POST['search'])) //If the user has push the search button the search funcion
will be executed
{
    search($_POST['search1'], $_POST['search2'], $_POST['select1'], $_POST['select2'],
          $_POST['lang'], $_POST['material'], $_POST['form'], $username);
} else
{
?>
    <tr>
    <td> <table width="300" align="center" cellpadding="10" cellspacing="1">
    <form method="post" action=""
    <?php
        //Re run the code second time
        echo $HTTP_SERVER_VARS['PHP_SELF'];
?>
    <th colspan="3" align="center">Leita eftir bókum</th>
    <tr><td colspan="3" ><hr/> </td></tr>
    <tr>
        <td>
            <select tabindex="1" size="1" name="select1">
                <option value="title">Titill</option>
                <option value="author">Höfundur</option>
                <option value="comment">Lýsing</option>
                <option value="isbn">ISBN</option>
                <option value="publisher">Útgefandi</option>
                <option value="printed">Útgáfu staður</option>
            </select>
        </td>
        <td align="center"><div align="right" title="Smelltu á bókstaf til að bæta í
leitarorð"><a href="javascript:addLetter('leitarTextil','%20%C3%A1')">á</a>&ampnbsp<a
href="javascript:addLetter('leitarTextil','%20%C3%A9')">é</a>&ampnbsp<a
href="javascript:addLetter('leitarTextil','%20%C3%B0')">ð</a>&ampnbsp<a
href="javascript:addLetter('leitarTextil','%20%C3%AD')">í</a>&ampnbsp<a
href="javascript:addLetter('leitarTextil','%20%C3%B3')">ó</a>&ampnbsp<a
href="javascript:addLetter('leitarTextil','%20%C3%BA')">ú</a>&ampnbsp<a
href="javascript:addLetter('leitarTextil','%20%C3%BD')">ý</a>&ampnbsp<a
href="javascript:addLetter('leitarTextil','%20%C3%BE')">þ</a>&ampnbsp<a
href="javascript:addLetter('leitarTextil','%20%C3%A6')">æ</a>&ampnbsp<a
href="javascript:addLetter('leitarTextil','%20%C3%B6')">ö</a></div>
<div title="Skrið leitarorð hér inn"><input tabindex="2" type="text" tabindex="2" value="" size="60" maxlength="60" name="search1" id="leitarTextil"/></td></div>
</tr>
    <tr>
        <td>
            <select tabindex="3" size="1" name="select2">
                <option value="title">Titill</option>
                <option value="author" selected="">Höfundur</option>
                <option value="comment">Lýsing</option>
                <option value="isbn">ISBN</option>
                <option value="publisher">Útgefandi</option>
                <option value="printed">Útgáfu staður</option>
            </select>
            <td align="center" ><div align="right" title="Smelltu á bókstaf til að bæta í
leitarorð"><a href="javascript:addLetter('leitarTexti2','%20%C3%A1')">á</a>&ampnbsp<a
href="javascript:addLetter('leitarTexti2','%20%C3%A9')">é</a>&ampnbsp<a
href="javascript:addLetter('leitarTexti2','%20%C3%B0')">ð</a>&ampnbsp<a
href="javascript:addLetter('leitarTexti2','%20%C3%AD')">í</a>&ampnbsp<a
href="javascript:addLetter('leitarTexti2','%20%C3%B3')">ó</a>&ampnbsp<a
href="javascript:addLetter('leitarTexti2','%20%C3%BA')">ú</a>&ampnbsp<a
href="javascript:addLetter('leitarTexti2','%20%C3%BD')">ý</a>&ampnbsp<a
href="javascript:addLetter('leitarTexti2','%20%C3%BE')">þ</a>&ampnbsp<a
href="javascript:addLetter('leitarTexti2','%20%C3%A6')">æ</a>&ampnbsp<a
href="javascript:addLetter('leitarTexti2','%20%C3%B6')">ö</a></div>
<div title="Bætið hér við leitarorði"><input tabindex="4" type="text" value="" size="60"
maxlength="60" name="search2" id="leitarTexti2"/></td></div>
        </tr>
        <tr>
            <td>Leita eftir Efni:</td>

```

```

<td colspan="1">
<div title="Veljið bóka efni">
<select tabindex="4" size="1" name="material">
    <option value="all">Skiptir ekki máli</option>
    <option>Annað</option>
    <option>Barna og unglingsbækur</option>
    <option>Listir og ljósmyndir</option>
    <option>Handbækur</option>
    <option>Skáldsaga</option>
    <option>Ritsöfn</option>
    <option>Matur og drykkur</option>
    <option>Tölvubækur</option>
    <option>Hljóðbækur</option>
    <option>Fræðibók</option>
    <option>Ævisögur og endurminningar</option>
</select></td></div>
</tr>
<tr>
<td>Tungumáli:</td>
<td align="center" colspan="1">
    <input type="radio" name="lang" value="all" checked="" />
    Öll tungumál
    <input type="radio" value="íslenska" name="lang" />
    íslenska
    <input type="radio" value="Enska" name="lang" />
    Enska
    <br />
    <input type="radio" value="Danska" name="lang" />
    Danska
    <input type="radio" value="Annað" name="lang" />
    Annað
    </td>
</tr>
<tr>
<td>Form:</td>
<td colspan="1">
    <input type="radio" value="Bók" name="form" />
    Bók
    <input type="radio" value="Timarit" name="form" />
    Timarit
    <input type="radio" value="Annað" name="form" checked="" />
    Annað
    <input type="radio" value="allt" name="form" checked="" />
    Skiptir ekki máli
    </td></td>
</tr>
<tr>
<td colspan="3">
    <input type="submit" value="Leita" name="search" />
    <input type="hidden" name="value" value="" />
    <input type="reset" value="Hreinsa" />
    <input type="submit" value="Sýna allar bækur" name="search" />
</td>
</tr>
<tr>
<td colspan="3">
<?php
//This query shows how many books are currently in your database
mysql_query("SET NAMES 'utf8'"); //Translate the data to icelandic characters.
$result = mysql_query("SELECT * FROM books WHERE owner ='$username'");
$num_rows = mysql_num_rows($result);
?>
Samtals skráðar bækur:<strong><?echo $num_rows;?></strong>
</td>
</tr>
</form>
</table>
<td>
    <table width="250" border="0" cellspacing="2" cellpadding="3">
        <tr>
            <th align="center">Þú leitaðir eftir þessum bókum seinast</th>
        </tr>
        <tr>
            <td><hr /></td>
        </tr>
        </tr>
    </table>

```

```

<td height="308">
<?php
    /*This is histoy of recent books that you have been searching for it display recent 12
books and print it in a list
    This list will be updated everytime when you search for books.
    */
    mysql_query("SET NAMES 'utf8'"); //Translate the data to icelandic characters.
    $q = mysql_query("select * from books where owner = '$username' ORDER BY lastsearch
DESC");
    echo "<table class='sortable'>";
    echo "<thead>";
    echo "<tr><th>Nr.</th><th>Titill</th><th>Inn/Úti</th></tr>";
    echo "</thead>";
    echo "<tbody valign='top'>";
    while ($row = mysql_fetch_array($q, MYSQL_ASSOC))
    {
        $temp=$row{"lastsearch"};
        if(!empty($temp))
        {
            $id = $row{'id'};
            $count++;
            $loan = $row{'loan'};
            if($loan == "1")
                $loan = "Inni";
            else
                $loan = "Úti";
            if ($count < 13)
            {
                echo "<tr><td>" . $count . "</td><td><a href='books.php?id=$id'>" . $row{
                    "title"} . "</a><td>". $loan. "</td></tr>";
            }
            if (empty($row))
                echo "Engin leit.";
        }
    }
    echo "</tbody>";
    echo "<tfoot>";
    echo "<tr><td colspan='3'>Þú getur smellt á bók til að skoða nánar, uppfæra eða eyða
henni.</td></tr>";
    echo "</tfoot>";
?>
</td>
</tr>
</table>
</td>
</tr>
</form>
</table>
</td>
</tr>
<td height="20"> </td>
</tr>
</table>
<tr>
    <td id="prg" colspan="4"> <p>NetKiljan - Bókasafnið þitt á netinu
    <br>
        <a href="mailto:netkiljan@internet.is">- Póstur -</a> </p></td>
    </tr>
</table>
</body>
</html>
<?php
    }
?>
```

Books.php

```

<?php
session_start();
require_once ("login.php");
if ($logged_in)
{
    displayuser($username, $id);
} else
    echo "not logged in";
function displayuser($username, $id)
{
    //Gets the current data from each book and put into variables
    mysql_query("SET NAMES 'utf8'"); //Translate the data to icelandic characters.
    $q = mysql_query("SELECT * from books where owner = '$username' AND id = '$id'");
    while ($row = mysql_fetch_array($q, MYSQL_ASSOC))
    {
        $title = $row{'title'};
        $author = $row{'author'};
        $material = $row{'material'};
        $comment = $row{'comment'};
        $publisher = $row{'publisher'};
        $form = $row{'form'};
        $copy = $row{'copy'};
        $review = $row{'review'};
        $loan = $row{'loan'};
        $isbn = $row{'isbn'};
        $lang = $row{'lang'};
        $printed = $row{'printed'};
        $printed_year = $row{'printed_year'};
        $location = $row{'location'};
    }
    function changeBook($title, $author, $comment, $publisher, $isbn, $material, $lang,
                      $form, $printed, $printed_year, $copy, $review, $loan, $location, $id, $username)
    {
        $titletrim = trim($title);
        if (!empty($titletrim))
        {
            global $conn;
            mysql_query("SET NAMES 'utf8'"); // icelandic characters
            $q = "UPDATE books SET
title='$title',author='$author',comment='$comment',publisher='$publisher',copy='$copy',
isbn='$isbn',material='$material',lang='$lang',form='$form',printed='$printed',printed_year='$
printed_year',isbn='$isbn',loan='$loan',review='$review',location='$location' WHERE id = '$id'
AND owner = '$username'";
            mysql_query($q, $conn);
            echo '<script language="javascript">alert(" ' . $title . ' hefur verið
uppfærð!");location.replace("'.$_SESSION['page'].'");</script>';
            return;
        }
    }
    if (isset($_POST['testBt']))
    {
        changeBook($_POST['title'], $_POST['author'], $_POST['comment'], $_POST['publisher'],
                  $_POST['isbn'], $_POST['material'], $_POST['lang'], $_POST['form'],
                  $_POST['printed'],
                  $_POST['printed_year'], $_POST['copy'], $_POST['review'],
                  $_POST['loan'], $_POST['location'], $id, $username);
        echo "<meta http-equiv=\"Refresh\" content=\"0;url=$HTTP_SERVER_VARS[PHP_SELF]\">";
    }
    function deleteBook($title, $id, $username)
    {
        global $conn;
        mysql_query("SET NAMES 'utf8'"); // icelandic characters
        $q = "DELETE FROM books WHERE id = '$id' AND owner = '$username'";
        mysql_query($q, $conn);
        echo '<script language="javascript">alert(" ' . $title . ' hefur verið eydd!");
location.replace("'.$_SESSION['page'].'");
</script>';
    }
}

```

```

        return;
    }
    if (isset($_POST['delete']))
    {
        deleteBook($_POST['title'],$id,$username);
        echo "<meta http-equiv=\"Refresh\" content=\"0;url=$HTTP_SERVER_VARS[PHP_SELF]\"";
        return;
    }
?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8">
<meta name="Description" content="Netkiljan - Bókasafnið þitt á netinu">
<meta name="keywords" content="Bókasafn" />
<title>Netkiljan - Bókasafnið þitt á netinu</title>
<link href="assets/css/stylesheets.css" type="text/css" rel="stylesheet">
<style type="text/css">
body{font-family:"Lucida Sans Unicode", "Lucida Grande", Verdana, Arial, Helvetica, sans-serif; font-size:12px; color:#555555;}
div.main{margin:30px auto; width:800px;}
table.sortable{border:0; padding:0; margin:20px;}
table.sortable td{padding:4px; width:120px; border-bottom:solid 1px #DEDEDE;}
table.sortable th{padding:4px;}
table.sortable thead{background:#e3edef; color:#333333; text-align:left;}
table.sortable tfoot{font-weight:bold; }
table.sortable tfoot td{border:none;}
</style>
<script src="assets/include/sorttable.js" type="text/javascript"></script>
<script language="JavaScript" type="text/javascript">
function change()
{
document.testFrm.testBt.disabled=false;
document.testFrm.testBt2.disabled=false;
}
</script>
<?
?>
<style type="text/css">
/* GLOBALHEADER */
#globalheader { width: 982px; height: 38px; margin: 4px auto; position: relative; z-index: 9998; }
#globalheader #globalnav { margin: 0; padding-left: 21px; }
#globalheader #globalnav li { display: inline; }
#globalheader #globalnav li a { float: left; width: 117px; height: 0; padding-top: 38px; overflow: hidden; }
#globalheader #globalnav li a,
#globalheader #globalmypage { background-image: url(assets/pic/images/globalnavbg.png); background-image: url(assets/pic/images/globalnavbg.gif); background-repeat: no-repeat; }
/* BUTTONS */
#globalheader #globalnav li#gn-mypage a { background-position: 0 0; }
#globalheader #globalnav li#gn-mypage a { background-position: -117px 0; }
#globalheader #globalnav li#gn-search a { background-position: -234px 0; }
#globalheader #globalnav li#gn-input a { background-position: -351px 0; }
#globalheader #globalnav li#gn-options a { background-position: -468px 0; }
#globalheader #globalnav li#gn-options2 a { background-position: -585px 0; }
#globalheader #globalnav li#gn-options3 a { background-position: -702px 0; }
#globalheader #globalnav li#gn-logout a { background-position: 100% 0; }
/* OVER STATES */
#globalheader #globalnav li#gn-heim a:hover { background-position: 0 -38px; }
#globalheader #globalnav li#gn-mypage a:hover { background-position: -117px -38px; }
#globalheader #globalnav li#gn-search a:hover { background-position: -234px -38px; }
#globalheader #globalnav li#gn-input a:hover { background-position: -351px -38px; }
#globalheader #globalnav li#gn-options a:hover { background-position: -468px -38px; }
#globalheader #globalnav li#gn-logout a:hover { background-position: 100% -38px; }
/* PRESSED STATES */
#globalheader #globalnav li#gn-heim a:active { background-position: 0 -76px; }
#globalheader #globalnav li#gn-mypage a:active { background-position: -117px -76px; }
#globalheader #globalnav li#gn-search a:active { background-position: -234px -76px; }
#globalheader #globalnav li#gn-input a:active { background-position: -351px -76px; }
#globalheader #globalnav li#gn-options a:active { background-position: -468px -76px; }
#globalheader #globalnav li#gn-logout a:active { background-position: 100% -76px; }
/* ON STATES */
#globalheader.home #globalnav li#gn-heim a:hover { background-position: 0 0; cursor: default; }
}

```

```

#globalheader.mypage #globalnav li#gn-mypage a { background-position: -117px -114px
!important; }
#globalheader.search #globalnav li#gn-search a { background-position: -234px -114px
!important; }
#globalheader.input #globalnav li#gn-input a { background-position: -351px -76!important; }
/skoða betur
#globalheader.options #globalnav li#gn-options a { background-position: -468px -114px
!important; }
</style>
</head>
<body>





```

```

        echo $material;
    } else
    {
        echo "<option>";
        echo "Annað";
    }
?></option>
        <?
if ($material == "Barna og unglingabækur")
{
    echo "<option selected=' '>";
    echo $material;
} else
{
    echo "<option>";
    echo "Barna og unglingabækur";
}
?></option>
        <?
if ($material == "Listir og ljósmyndir")
{
    echo "<option selected=' '>";
    echo $material;
} else
{
    echo "<option>";
    echo "Listir og ljósmyndir";
}
?></option>
        <?
if ($material == "Handbækur")
{
    echo "<option selected=' '>";
    echo $material;
} else
{
    echo "<option>";
    echo "Handbækur";
}
?></option>
        <?
if ($material == "Skáldsaga")
{
    echo "<option selected=' '>";
    echo $material;
} else
{
    echo "<option>";
    echo "Skáldsaga";
}
?></option>
        <?
if ($material == "Ritsöfn")
{
    echo "<option selected=' '>";
    echo $material;
} else
{
    echo "<option>";
    echo "Ritsöfn";
}
?></option>
        <?
if ($material == "Matur og drykkur")
{
    echo "<option selected=' '>";
    echo $material;
} else
{
    echo "<option>";
    echo "Matur og drykkur";
}
?></option>
        <?
if ($material == "Tölvubækur")
{
    echo "<option selected=' '>";

```

```

        echo $material;
    } else
    {
        echo "<option>";
        echo "Tölvubækur";
    }
?></option>
<?
if ($material == "Hljóðbækur")
{
    echo "<option selected=' '>";
    echo $material;
} else
{
    echo "<option>";
    echo "Hljóðbækur";
}
?></option>
<?
if ($material == "Fræðibók")
{
    echo "<option selected=' '>";
    echo $material;
} else
{
    echo "<option>";
    echo "Fræðibók";
}
?></option>
<?
if ($material == "Ævisögur og endurminningar")
{
    echo "<option selected=' '>";
    echo $material;
} else
{
    echo "<option>";
    echo "Ævisögur og endurminningar";
}
?></option>
</select></td>
<td align="center"></td>
</tr>
<tr>
<td>Útgefandi</td>
<td align="center"><input onclick="change()" value=<?
echo $publisher
?>" size="40" maxlength="40" name="publisher" /></td>
<td align="center">&nbsp;</td>
</tr>
<tr>
<td>Umsögn</td>
<td align="center"><textarea onclick="change()" rows="4" cols="45" name="comment"><?
echo $comment
?></textarea></td>
<td align="center">&nbsp;</td>
</tr>
<tr>
<td>ISBN</td>
<td align="center"><input onclick="change()" value=<?echo $isbn?>" size="11"
maxlength="11" name="isbn"/> </td>
<td align="center">&nbsp;</td>
</tr>
<tr>
<td>Form</td>
<td align="center">
<select name="form" size="1" onchange="change() ">
?>
        if ($form == "Bók")
        {
            echo "<option selected=' '>";
            echo $form;
        } else
        {
            echo "<option>";
            echo "Bók";
        }
    
```

```

        }
    ?></option>
    <?
        if ($form == "Tímarit")
        {
            echo "<option selected=' '>";
            echo $form;
        } else
        {
            echo "<option>";
            echo "Tímarit";
        }
    ?></option>
    <?
        if ($form == "Annað")
        {
            echo "<option selected=' '>";
            echo $form;
        } else
        {
            echo "<option>";
            echo "Annað";
        }
    ?></option>
        </select>
    </td>
    <td align="center">&nbsp;</td>
</tr>
<td>Tungumál</td>
<td align="center">
<select name="lang" size="1" onchange="change ()">
<?
    if ($material == "Íslenska")
    {
        echo "<option selected=' '>";
        echo $material;
    } else
    {
        echo "<option>";
        echo "Íslenska";
    }
?></option>
    <?
        if ($material == "Enska")
        {
            echo "<option selected=' '>";
            echo $material;
        } else
        {
            echo "<option>";
            echo "Enska";
        }
    ?></option>
    <?
        if ($material == "Annað")
        {
            echo "<option selected=' '>";
            echo $material;
        } else
        {
            echo "<option>";
            echo "Annað";
        }
    ?></option>
        </select>
    </td>
    <td align="center">&nbsp;</td>
</tr>
<tr>
<td>Inni/úti</td>
<td align="center">
    <?
        if ($loan == 1)
        {
            echo "<input onchange='change ()' type='radio' name='loan' value='1' checked=' '/> .";
            "Inni";
        }
    ?>
```

```

        } else
        {
            echo "<input onchange='change()' type='radio' name='loan' value='1' />" .
        "Inni";
    }
    if ($loan == 0)
    {
        echo "<input onchange='change()' type='radio' name='loan' value='0' checked='checked' />" .
        "Úti";
    } else
    {
        echo "<input onchange='change()' type='radio' name='loan' value='0' />" .
    "Úti";
    }
?>
</td>
</tr>
<tr>
<td>Staðsetning</td>
<td colspan="3">
<input type="text" onclick="change()" value=<?echo $location?>" size="65" maxlength="65" name="location" />
</td>
</tr>
<tr>
<td>Fjöldi</td>
<td align="center"><input onclick="change()" value=<?
echo $copy
?>" size="2" maxlength="2" name="copy"/>stk. </td>
<td align="center">&ampnbsp</td>
</tr>
<tr>
<td>Stjörnugjöf</td>
<td align="center">
<?
if ($review == 1)
{
    echo "<input onchange='change()' type='radio' name='review' value='1' checked='checked' />" .
    "1";
} else
{
    echo "<input onchange='change()' type='radio' name='review' value='1' />" .
    "1";
}
if ($review == 2)
{
    echo "<input onchange='change()' type='radio' name='review' value='2' checked='checked' />" .
    "2";
} else
{
    echo "<input onchange='change()' type='radio' name='review' value='2' />" .
    "2";
}
if ($review == 3)
{
    echo "<input onchange='change()' type='radio' name='review' value='3' checked='checked' />" .
    "3";
} else
{
    echo "<input onchange='change()' type='radio' name='review' value='3' />" .
    "3";
}
if ($review == 4)
{
    echo "<input onchange='change()' type='radio' name='review' value='4' checked='checked' />" .
    "4";
} else
{
    echo "<input onchange='change()' type='radio' name='review' value='4' />" .
    "4";
}
if ($review == 5)
{
    echo "<input onchange='change()' type='radio' name='review' value='5' checked='checked' />" .
    "5";
}
?>
</td>
</tr>

```

```
{  
    echo "<input onchange='change()' type='radio' name='review'  
value='5'checked='' /> .  
        "5";  
} else  
{  
    echo "<input onchange='change()' type='radio' name='review' value='5' /> .  
"5";  
}  
?  
</td>  
<td align="center">&nbsp;</td>  
</tr>  
<tr>  
<td colspan="3">  
<center><input type="submit" disabled="false" name="testBt" value="Vista Breytingar"  
onclick="change()" />&nbsp;<input type="submit" value="Eyða bók" name="delete"  
onclick="javascript: return confirm('&nbsp;&nbsp;Ertu viss um að þú viljir eyða <?echo  
"$title"?>?');" />&nbsp;<input type="reset" disabled="false" name="testBt2" value="Hætta við"  
/></center>  
</td>  
</tr>  
<tr>  
<td colspan="3">  
<hr />  
</td>  
</tr>  
</form>  
<tr>  
<td colspan="3">  
<center><input type="BUTTON" value="&nbsp;Til Baka&nbsp;"  
onClick="parent.location='search.php'"></center>  
</td>  
</tr>  
</table>  
</table>  
&nbsp;  
</table>  
<tr>  
<td id="prg" colspan="4"> <p>NetKiljan - Bókasafnið þitt á netinu  
<br> <a href="mailto:netkiljan@internet.is">- Póstur -</a> </p></td>  
</tr>  
</table>  
</body>  
</html>  
<?php  
}  
?  
}
```

options.php

```

<?php
session_start();
include ("login.php");
///////////////////////////////
if ($logged_in)
{
    displayuser($username);
} else
    echo "ekki skráður inn!";
function displayuser($username) //Only display this page if the user has logged into the site,
for security of the site.
{
//Gets the infomation about each of the user from the user table
mysql_query("SET NAMES 'utf8'"); //Translate the data to icelandic characters.
$q = mysql_query("select * from users where user_name = '$username'");
while ($row = mysql_fetch_array($q, MYSQL_ASSOC))
{
    $email=$row{'email'};
    $fullname=$row{'full_name'};
    $address=$row{'address'};
    $phone=$row{'telephone'};
}
//This function will be called if the user wants to change their information.
function changeUser($email,$fullname,$address,$phone,$username)
{
    global $conn;
    mysql_query("SET NAMES 'utf8'"); // icelandic characters
    if(!empty($email)) //Empty email is not allowed
    {
        $q = "UPDATE users SET
        full_name='$fullname',email='$email',address='$address',telephone='$phone' WHERE user_name =
        '$username'";
        mysql_query($q, $conn);
        echo '<script language="javascript">alert("Notenda upplýsingar hafa verið
        uppfærðar!");</script>';
    }
    die();
}
if (isset($_POST['vista'])) //If user has enter the safe button the changeUser will be called
{
    changeUser($_POST['email'],$_POST['fullname'],$_POST['address'],$_POST['phone'],$username);
    echo "<meta http-equiv=\"Refresh\" content=\"0;url=$HTTP_SERVER_VARS[PHP_SELF]\">";
}
?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8">
<meta name="Description" content="Netkiljan - Bókasafnið þitt á netinu">
<meta name="keywords" content="Bókasafn" />
<title>Netkiljan - Bókasafnið þitt á netinu</title>
<link href="assets/css/stylesheets.css" type="text/css" rel="stylesheet">
<script type="text/javascript" charset="utf-8" src="assets/include/register.js"></script>
<script type="text/javascript" charset="utf-8" src="assets/include/formval.js"></script>
<script language="JavaScript" type="text/javascript">
//This function is for enabling the safe button if the user has change something in the input
form
function change()
{
document.demo.vista.disabled=false;
}
//Validation of the input form, if the email is missing or empty
function validateOnSubmit()
{
    var elem;
    var errs=0;
    // execute all element validations in reverse order, so focus gets

```

```

// set to the first one in error.
if (!validateEmail (document.forms.demo.email,'inf_email', true))
    errs += 1;
    if (errs>1)
        alert('Það þarf að yfirlara betur upplýsingarnar!');
    if (errs==1)
        alert('Það vantar netfangið');
    return (errs==0);
}
</script>
<style type="text/css">
body{font-family:"Lucida Sans Unicode", "Lucida Grande", Verdana, Arial, Helvetica, sans-serif; font-size:12px; color:#555555;}
div.main{margin:30px auto; width:800px;}
table.sortable{border:0; padding:0; margin:20px;}
table.sortable td{padding:4px; width:120px; border-bottom:solid 1px #DEDEDE;}
table.sortable th{padding:4px;}
table.sortable thead{background:#e3edef; color:#333333; text-align:left;}
table.sortable tfoot{font-weight:bold; }
table.sortable tfoot td{border:none;}
</style>
<script src="assets/include/sorttable.js" type="text/javascript"></script>
<style type="text/css">
/* GLOBALHEADER */
#globalheader { width: 982px; height: 38px; margin: 4px auto; position: relative; z-index: 9998; }
#globalheader #globalnav { margin: 0; padding-left: 21px ;}
#globalheader #globalnav li { display: inline; }
#globalheader #globalnav li a { float: left; width: 117px; height: 0; padding-top: 38px; overflow: hidden; }
#globalheader #globalnav li a,
#globalheader #globalmypage { background-image: url(assets/pic/images/globalnavbg.png); background-image: url(assets/pic/images/globalnavbg.gif); background-repeat: no-repeat; }
/* BUTTONS */
#globalheader #globalnav li#gn-mypage a { background-position: 0 0; }
#globalheader #globalnav li#gn-mypage a { background-position: -117px 0; }
#globalheader #globalnav li#gn-search a { background-position: -234px 0; }
#globalheader #globalnav li#gn-input a { background-position: -351px 0; }
#globalheader #globalnav li#gn-options a { background-position: -468px 0; }
#globalheader #globalnav li#gn-options2 a { background-position: -585px 0; }
#globalheader #globalnav li#gn-options3 a { background-position: -702px 0; }
#globalheader #globalnav li#gn-logout a { background-position: 100% 0; }
/* OVER STATES */
#globalheader #globalnav li#gn-heim a:hover { background-position: 0 -38px; }
#globalheader #globalnav li#gn-mypage a:hover { background-position: -117px -38px; }
#globalheader #globalnav li#gn-search a:hover { background-position: -234px -38px; }
#globalheader #globalnav li#gn-input a:hover { background-position: -351px -38px; }
#globalheader #globalnav li#gn-options a:hover { background-position: -468px -38px; }
#globalheader #globalnav li#gn-logout a:hover { background-position: 100% -38px; }
/* PRESSED STATES */
#globalheader #globalnav li#gn-heim a:active { background-position: 0 -76px; }
#globalheader #globalnav li#gn-mypage a:active { background-position: -117px -76px; }
#globalheader #globalnav li#gn-search a:active { background-position: -234px -76px; }
#globalheader #globalnav li#gn-input a:active { background-position: -351px -76px; }
#globalheader #globalnav li#gn-options a:active { background-position: -468px -76px; }
#globalheader #globalnav li#gn-logout a:active { background-position: 100% -76px; }
/* ON STATES */
#globalheader.home #globalnav li#gn-heim a:hover { background-position: 0 0; cursor: default; }
#globalheader.mypage #globalnav li#gn-mypage a { background-position: -117px -114px !important; }
#globalheader.search #globalnav li#gn-search a { background-position: -234px -114px !important; }
#globalheader.input #globalnav li#gn-input a { background-position: -351px -76px !important; }
/skoða betur
#globalheader.options #globalnav li#gn-options a { background-position: -468px -114px !important; }
</style>
</head>
<body>
<table border="0" id="Border" cellspacing="0" cellpadding="0">
<tr>
    <td><table border="0" cellpadding="0" cellspacing="0" id="container">
        <tr>
            <td id="logo" colspan="3"><a href="index.php"></a></td>
        </tr>

```

```

<tr>
<td>
    <div id="globalheader">
        <ul id="globalnav">
            <li id="gn-heim"><a href="index.php"></a></li>
            <li id="gn-mypage"><a href="search.php"></a></li>
            <li id="gn-search"><a href="insert.php"> </a></li>
            <li id="gn-input"><a href=""></a></li>
            <li id="gn-options"><a href="options.php"></a></li>
            <li id="gn-options2"><a></a></li>
            <li id="gn-options3"><a></a></li>
            <li id="gn-logout"><a href="logout.php">logout</a></li>
        </ul>
    </div>
</td>
</tr>
<tr>
<td height="400px">
    <table border="0" align="center" cellpadding="3" cellspacing="4">
        <tr>
            <td align="center">
                <table align="center" cellpadding="4" cellspacing="4">
                    <form method="post" name="demo" action="<? echo $HTTP_SERVER_VARS['PHP_SELF']; ?>" onsubmit="return validateOnSubmit() ">
                        <th colspan="3" align="center">Stillingar - <? echo $username?></th>
                        <tr><td colspan="3" ><hr/> </td></tr>
                        <tr>
                            <td>Fullt nafn</td>
                            <td align="center"><input type="text" onclick="change()" value="<?echo $fullname?>" size="60" maxlength="60" name="fullname" /></td>
                            <td align="center">&nbsp;</td>
                        </tr>
                        <tr>
                            <td>Heimilisfang</td>
                            <td align="center"><input type="text" onclick="change()" value="<?echo $address?>" size="60" maxlength="60" name="address" /></td>
                            <td align="center">&nbsp;</td>
                        </tr>
                        <tr>
                            <td>Símanúmer</td>
                            <td align="center"><input type="text" onclick="change()" value="<?echo $phone?>" size="60" maxlength="60" name="phone" /></td>
                            <td align="center">&nbsp;</td>
                        </tr>
                        <tr>
                            <td>Netfang</td>
                            <td align="center"><input value="<?echo $email?>" onclick="change()" id="email" size="60" maxlength="50" name="email" onchange="validateEmail(this, 'inf_email', true)" type="text" /></td>
                            <td>
                                <td id="inf_email">Vegna mistaka þá var ruglingur á notendum.<br /> Endilega fyllið út aftur réttar upplýsingar. Kerfistjóri :)</td>
                            </td>
                        </tr>
                        <tr>
                            <td align="center">&nbsp;</td>
                            </tr>
                            <form>
                                <td colspan="3">
                                    <center><input type="submit" value="Vista breytingar" name="vista" disabled="false" onclick="change()"/></center>
                                </td>
                            </form>
                            </tr>
                            <tr>
                                <td colspan="3">
                                    <hr />
                                </td>
                            </tr>
                            <tr>
                                <td colspan="3">
                                    <center><FORM><INPUT TYPE="BUTTON" VALUE="Til Baka" ONCLICK="history.go(-1)"></center></td>
                                </td>
                            </tr>
                            </form>
                            </tr>
                            </table>

```

```
</table>
</table>
<tr>
<td id="prg" colspan="4"> <p>NetKiljan - Bókasafnið þitt á netinu
<br>
<a href="mailto:netkiljan@internet.is">- Póstur -</a> </p></td>
</tr>
</table>
</body>
</html>
<?php
}
?>
```

logout.php

```
<?
session_start();
include("assets/include/db.inc");
include("login.php");

/***
 * Delete cookies - the time must be in the past,
 * so just negate what you added when creating the
 * cookie.
 */
if(isset($_COOKIE['cookname']) && isset($_COOKIE['cookpass']))
{
    setcookie("cookname", "", time()-60*60*24*100, "/");
    setcookie("cookpass", "", time()-60*60*24*100, "/");
}

?>

<html>
<title>Útskráð</title>
<body>

<?
if(!$logged_in)
{
    echo "<h1>Error!</h1>\n";
    echo "You are not currently logged in, logout failed. Back to <a href=\"index.php\">main</a>";
}
else{
    /* Kill session variables */
    unset($_SESSION['username']);
    unset($_SESSION['password']);
    $_SESSION = array(); // reset session array
    session_destroy(); // destroy session.

    echo "<script>
    alert('Þú hefur verið skráður út.')
    location.replace('index.php');
    </script>";
}

?>

</body>
</html>
```

stylesheet.css

```
@charset "utf-8";
/* CSS Document */

body
{
    margin:          0 auto;
    padding:         5px 1px;
    text-align:      center;
    background:      #FFFFFF;
    color:          #663300;
    /*font-family: Verdana, Arial;
    font-size:       small;*/
    background-image:url(..pic/bkgr.gif);
    font-family:"Lucida Sans Unicode", "Lucida Grande", Verdana, Arial, Helvetica, sans-serif;
    font-size:12px; color:#555555;
}

#Border
{
    border:none;
    position:relative;
    top:-1px;
    padding : 0px 0px 0px 0px;
    margin : 0px 0px 0px 0px;
    background : url("../pic/contentBgr.gif");
    width: 1002px;
    height: 100%;
}

#container
{
```

```
border-bottom: 2px groove;
width: 982px;
margin: 0 auto;

}

table { border: 1px solid #515A5F; border-collapse: collapse; }

th {
background:#e3edef; color:#333333; text-align:left;
}

td {
text-align: left;
}

#logo {
margin: 0;
padding: 0 0 1px 0;
text-align: left;
vertical-align:bottom;
border-bottom: 1px dashed #515A5F;
}

#login {
margin: 1px;
padding: 1px 1px 1px 1px;
text-align: left;
}

#topnav strong { color: #FE7E00; }

#topnav a { text-decoration: none; color: #515A5F; }

#topnav a:hover {
text-decoration: underline;
color:#009900;
}
```

```
#main
{
    float: none;
    border: 1px groove;
    padding-top: 5px;
    padding-right: 5px;
    padding-bottom: 10px;
    padding-left: 5px;
    background:#FFFFFF;
}

#left
{
    float: none;
    padding-top: 5px;
    padding-right: 5px;
    padding-bottom: 5px;
    padding-left: 5px;
    background:#FFFFFF;
}

#left2
{
    border-top: 1px groove;
    border-bottom: 1px groove;
    float: none;
    padding-top: 5px;
    padding-right: 5px;
    padding-bottom: 5px;
    padding-left: 5px;
    background:#FFFFFF;
}

#right
{
    float: none;
    padding-top: 5px;
    padding-right: 5px;
    padding-bottom: 5px;
    padding-left: 5px;
    background:#FFFFFF;
```

```
}

#right2

{

    border-top: 1px groove;
    border-bottom: 1px groove;
    float: none;

    padding-top: 5px;
    padding-right: 5px;
    padding-bottom: 5px;
    padding-left: 5px;
    background:#FFFFFF;

}

#main h2 { font-size: 125%; }

img { border:none; }

a { color:#3e6540; }

a:hover { color:#CC6600; }

.sep { margin: 0 0.6em 0 0.8em; }

#foot

{

    font-size: smaller;
}

#foot a { text-decoration: none; color: #f00000; }

#foot a:hover { text-decoration: underline; color: #349F2B; }

#foot .nav { font-weight: bold; }

#teljari

{

    text-align:center;
    font-size: small;

}
```

```
#prg
{
    font-size:           smaller;
    text-align:center;
    border:none;
    background:url(..pic/bkgr.gif)
}

#prg a { text-decoration: none; color: #f00000; }

/*Here begins the css for the help hint */

#hintbox{ /*CSS for pop up hint box */
position:absolute;
top: 0;
background-color:#e3edef;
width: 150px; /*Default width of hint.*/
padding: 3px;
border:1px solid black;
font-family:"Lucida Sans Unicode", "Lucida Grande", Verdana, Arial, Helvetica, sans-serif;
font-size:12px; color:#555555;
line-height:18px;
z-index:100;
border-right: 3px solid black;
border-bottom: 3px solid black;
visibility: hidden;
}

.hintanchor{ /*CSS for link that shows hint onmouseover*/
font-weight: bold;
color: navy;
margin: 3px 8px;
```

db.inc

```
<?php
$dbservertype='mysql';
$servername='192.168.1.36';
// username and password to log onto db server
$dbusername='palli';
$dbpassword='palli';
// name of database
$dbname='netkiljan';
///////////////////////////////
$conn = mysql_connect("$servername", "$dbusername", "$dbpassword") or die(mysql_error());
mysql_select_db($dbname, $conn) or die(mysql_error());
/////////////////////////////
?>
```

formval.js

```

/*
This code is not entirely mine
This code was modified for purpose for this project.
*/

var nbsp = 160;           // non-breaking space char
var node_text = 3;         // DOM text node-type
var emptyString = /^$\\s*/ ;
var global_valfield; // retain valfield for timer thread
// -----
//      trim
// Trim leading/trailing whitespace off string
// -----
function trim(str)
{
    return str.replace(/^\\s+|\\s+$\\s/g, '');
}
// -----
//      setfocus
// Delayed focus setting to get around IE bug
// -----
function setFocusDelayed()
{
    global_valfield.focus();
}
function setfocus(valfield)
{
    // save valfield in global variable so value retained when routine exits
    global_valfield = valfield;
    setTimeout( 'setFocusDelayed()', 100 );
}
// -----
//      msg
// Display warn/error message in HTML element.
// commonCheck routine must have previously been called
// -----
function msg(fld,      // id of element to display message in
            msgtype, // class to give element ("warn" or "error")
            message) // string to display
{
    // setting an empty string can give problems if later set to a
    // non-empty string, so ensure a space present. (For Mozilla and Opera one could
    // simply use a space, but IE demands something more, like a non-breaking space.)
    var dispmessage;
    if (emptyString.test(message))
        dispmessage = String.fromCharCode(nbsp);
    else
        dispmessage = message;
    var elem = document.getElementById(fld);
    elem.firstChild.nodeValue = dispmessage;
    elem.className = msgtype; // set the CSS class to adjust appearance of message
}
// -----
//      commonCheck
// Common code for all validation routines to:
// (a) check for older / less-equipped browsers
// (b) check if empty fields are required
// Returns true (validation passed),
//         false (validation failed) or
//         proceed (don't know yet)
// -----
var proceed = 2;
function commonCheck      (valfield,    // element to be validated
                           infofield,   // id of element to receive info/error msg
                           required)    // true if required
{
    if (!document.getElementById)
        return true; // not available on this browser - leave validation to the server
    var elem = document.getElementById(infofield);
}

```

```

if (!elem.firstChild) return true; // not available on this browser
if (elem.firstChild.nodeType != node_text) return true; // infofield is wrong type of node
if (emptyString.test(valfield.value)) {
    if (required) {
        msg (infofield, "error", "Villa: vantar");
        setfocus(valfield);
        return false;
    }
    else {
        msg (infofield, "warn", ""); // OK
        return true;
    }
}
return proceed;
}
// -----
// validatePresent
// Validate if something has been entered
// Returns true if so
// -----
function validatePresent(valfield, // element to be validated
                        infofield) // id of element to receive info/error msg
{
    var stat = commonCheck (valfield, infofield, true);
    if (stat != proceed) return stat;
    var illegalChars = /\W/;
    var userid = trim(valfield.value);
    if (userid.length <4)
    {
        msg (infofield, "error", "Villa: minnstakosti 4 stafir");
        setfocus(valfield);
        return false;
    }
    if (illegalChars.test(valfield.value))
    {
        msg (infofield, "error", "Villa: Má ekki innihalda bil né sérstafi");
        setfocus(valfield);
        return false;
    }
    msg (infofield, "warn", "");
    return true;
}
// -----
// validateEmail
// Validate if e-mail address
// Returns true if so (and also if could not be executed because of old browser)
// -----
function validateEmail (valfield, // element to be validated
                      infofield, // id of element to receive info/error msg
                      required) // true if required
{
    var stat = commonCheck (valfield, infofield, required);
    if (stat != proceed) return stat;
    var tfld = trim(valfield.value); // value of field with whitespace trimmed off
    var email = /^[^@]+@[^.]+\.[^.]*\w\w$/ ;
    if (!email.test(tfld)) {
        msg (infofield, "error", "Villa: ekki gilt netfang!");
        setfocus(valfield);
        return false;
    }
    var email2 = /^[A-Za-z][\w.-]+@[^\w[\w.-]+\.\[\w.-]*[A-Za-z][A-Za-z]$/ ;
    if (!email2.test(tfld))
        msg (infofield, "warn", "Óvenjulegt netfang - Ath!");
    else
        msg (infofield, "warn", "");
    return true;
}
///////////////////////////////
//// Validate Password /////
/////////////////////////////
var numdigits; //Global variable
function validatePassword (valfield, // element to be validated
                          infofield, // id of element to receive info/error msg
                          required) // true if required
{
    var stat = commonCheck (valfield, infofield, required);
    if (stat != proceed) return stat;
}

```

```
numdigits = trim(valfield.value); // value of field with whitespace trimmed off
var illegalChars = /\W/;
if (numdigits.length<4)
{
    msg (infofield, "error", "Villa: minnst 4 stafir");
    setfocus(valfield);
    return false;
}
if (illegalChars.test(valfield.value))
{
    msg (infofield, "error", "Villa: Má ekki innihalda bil né sérstafi");
    setfocus(valfield);
    return false;
}
else
    msg (infofield, "warn", "");
if (numdigits.length>25)
{
    msg (infofield, "error", "Villa: leyniorð of langt");
    setfocus(valfield);
    return false;
}
else
    msg (infofield, "warn", "");
return true;
}
function validatePassword2(valfield,
                           infofield,required)
{
    var stat = commonCheck (valfield, infofield, required);
    if (stat != proceed) return stat;
    var numdigits2 = trim(valfield.value);
    if (numdigits2 != numdigits)
    {
        msg (infofield, "error", "Villa: Leyniorð eru ekki eins");
        setfocus(valfield);
        return false;
    }
    else
        msg (infofield, "warn", "");
return true;
}
```

APPENDIX B – PROJECT PLAN