

Transmo - Transforming graphs to data

Transmo is a final project by students finishing their bachelors degree in computer science at Reykjavík University. The project aims to take images of graphs and charts and put them through a image recognition software that will give the user a spread sheet with the data from the images. This project is in collaboration with Grid which is a company that makes spread sheet data more presentable in a web based form.

Students behind the project

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Running the API

- Have python installed on the machine.
- Have docker installed on the machine.
- Clone this repository with git.
- Open a terminal inside of the root folder of this project.
- To build the docker container run `make docker_build`
- To run the docker container run `make docker_run`
- Now the service is running on `https://localhost:8000`

Maintaining API

- The API receives POST requests to `/upload`
- The API then validates the request and temporarily saves the image locally.
- The path to the image and chart type is then passed to the `processgraph` module.
- Each function in the `processgraph` module is well documented and easy to understand what they do.

To run the frontend

- Make sure node is installed
- Open terminal in root folder of frontend.
- First install dependencies `sudo npm install -g vue-cli` and `npm install`.
- Open terminal located in `./frontend` run `npm run serve`.

Maintaining frontend

- This is a very simple SPA (Single page application) that uses VUE.
- The main document is the `src/App.vue` and a component for the actual uploading is in the `src/components/ImageUploader.vue`.
- If the hosting of the api is to change then the url in line 88 in `src/components/ImageUploader.vue` needs to be changed.