Gaslighting Gatekeeping Girlbosses Part X

Components and roles:
- Magic prediction machine
    - API
    - Models imported for machine learning (LSTM, ARIMA, GRU)
    - Simulation of test runs with model, predicting for each stock
- Database (SQL)
    - Stores the prediction results from the magic prediction machine
- Website (HTML/CSS/FEF)
    - Magic Button for Magic Prediction
    - (Maybe?) Grid of boxes, lighting up green or red to indicate whether stock price will go up. Simulations of 100 tests can be illustrated this way.
    - Dropdown for stock selection.
- Javascript for Website:
    - Visualizing using canvas and filling up grid lines
- Sports betting machine predictor? (maybe)
    - Can visualize sports and player statistics and then makes a bet on the winning team.

How does each component relate to each other?:
- Magic prediction machine outputs the data that'll be processed and displayed by the javascript
- The database will have general information on the different stocks that can have predications ran on by the magic prediction machine. It'll also store the prediction results which will be displayed on the html by the javascript file
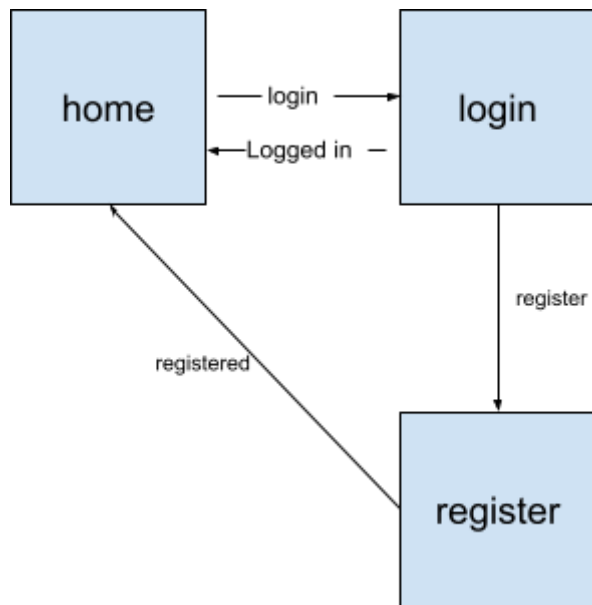
Component map
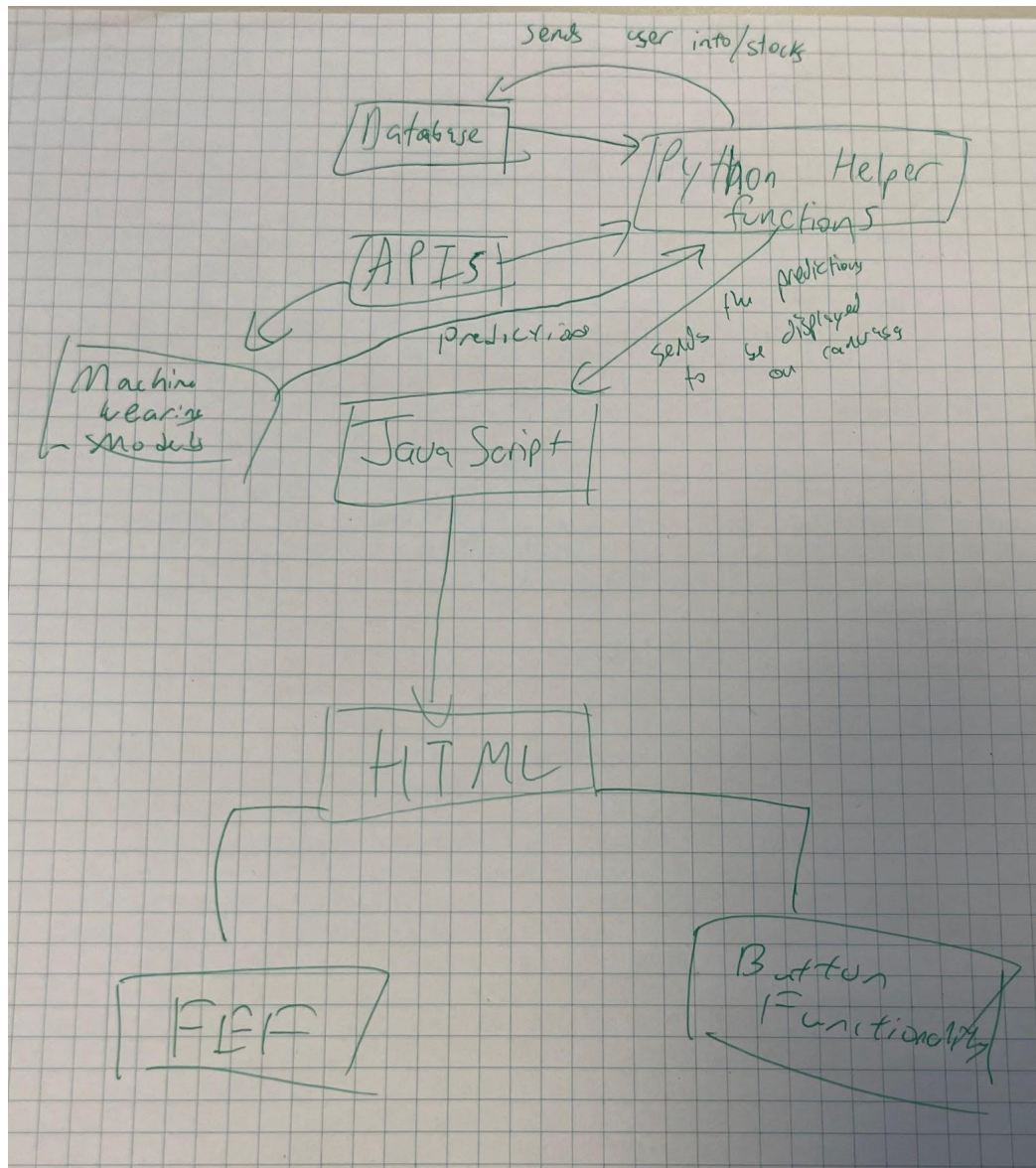
Database Organization:
- tables.db
- Login Info: Username & Password
- Stock Info: Stock Name, Prediction Price

Front-end Site Map:

Breakdown of tasks:
Machine learning APIs - kevin
Backend JavaScript - ian
Frontend stuff - aden
Database - gitae

APIs:
Yahoo Finance API
Bloomberg Terminal? Mayhaps?
Kaggle Datasets
Openai Datasets

FEF:
We are choosing to use Bootstrap as our front-end framework. We made this decision because we think the look and feel of it fits into our design. We would also like to make use of its Javascript add-ons to increase the interactivity of our site.

Target "ship date.": March 28, 2023