M.A.D.E for Greatness: Marco Quintero, Abidur Rahman, Danny Huang, Endrit Idrizi
SoftDev
P04
2025-03-27
TARGET SHIP DATE: {2025-04-11}

DESIGN DOCUMENT V1

OVERVIEW

YourAnimeSucks aims to answer two questions: does the quality of anime correlate with popularity and as the name of the website suggests, does your anime taste suck? Our website uses scraped data from the website MyAnimeList, a website that allows users to keep track of the anime they have seen and rank them out of ten. We will be using the popularity and the average rating to determine a possible correlation. The other key feature is our search system that will allow users to generate bar graphs and pie charts that show the number/percentage of anime in a specified category (Ex. A pie chart that breaks down the 1000 most popular anime on MAL by genre). Alternatively, users can use the search feature to search their ideal anime and find the average popularity and rating based on the anime that fulfill the criteria to see if their taste in anime sucks or not.

Dataset

The dataset we will be using is titled anime.csv in this link https://app.gigasheet.com/spreadsheet/anime-csv/1527fb6e_f9e1_4c64_ab10_e92ebd804b08 and has a sample of what a portion of the data looks like. To access the entire thing, one must sign up to save the file. This dataset contains everything about an anime on MyAnimeList but for the purposes of our website, we will be focusing on categories binary or numerical values (ex. media type, num episodes, source, popularity, mean)

COMPONENTS

FRONTEND:

- signin.html: Users will be directed to the Sign in page if they are not signed in, if they are signed in they will be directed to the filter page.
- signup.html: Users will be able to get to the Sign up page at the sign in page. Once signed up, they will be redirected to the sign in page.
- profile.html: Page where users can view their saved graphs
- filter.html: Users will be able to filter categories of the data and select the type of graphs that they want to use to analyze the data.

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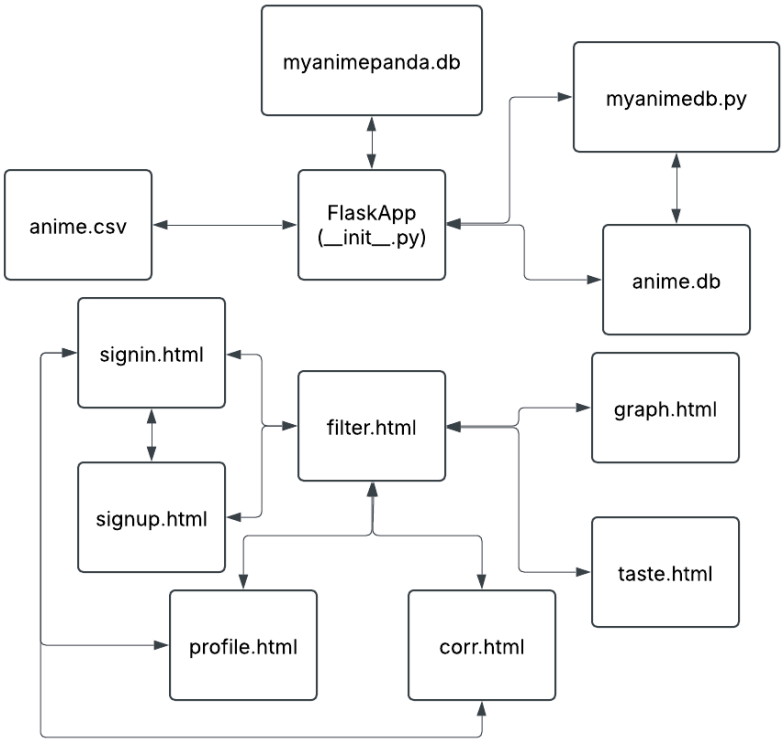
- graph.html: The graph the user selected will be displayed here. If the parameters selected by the user do not match with any of the data, the user will still be sent to graph.html but no image will load.
- taste.html: The taste rating generated after using the search feature in the filter page. Preset text will be generated on the page in accordance with the popularity and mean score rating of the filter that the user used.
- frontend.js: This is where the frontend components receive interactivity through javascript.
- datavis.js: This is where the data visualization library will be called.

BACKEND:

- __init.py__ : Flask app and page routing will be setup here
- myanimedb.py: SQL Database creation and all related functions
- myanimepanda.py: All functions related to PythonPandas (data cleaning and correlation)

COMPONENT MAP



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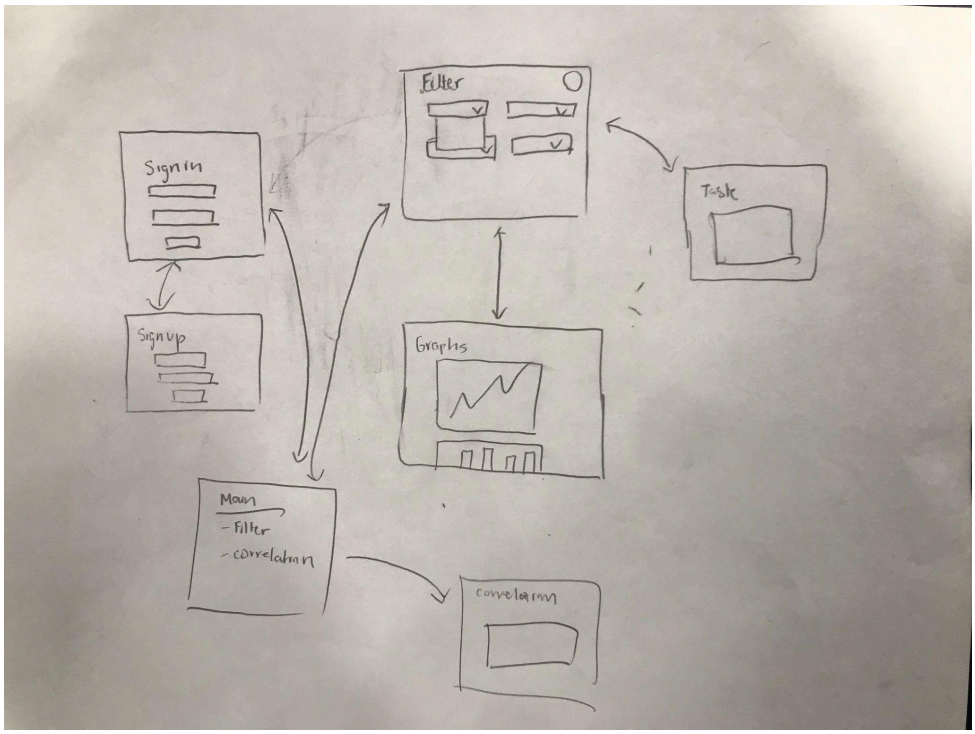
SITE MAP



FEF - TAILWIND

We have chosen to use tailwind because of its more extensive customization options. We believe tailwind is the best for achieving or specific site vision

- Utilize tailwind for buttons in user interface, toggle between light and dark mode, page sections, and prebuilt page designs.
- This will ensure consistent design throughout the entire website and create an appealing user experience.

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DATABASE - SQLITE3

SQLite3 will be used to store user information. The main functions of our website can be used without logging in but users can save previously generated graphs. The graphs will be saved as .jpg files and the names of said files will be saved in the database as strings. The naming scheme of graphs starts with the type of graph, then the category chosen to compare and then the specific options within the category. Whenever an account saves a new graph that exceeds the current number of graph columns, a new column is created.

Username	Password	Graph 1	Graph 2
topher	time	pie_studios.jpg	
conquest	standready	bar_genre_sci-fi_slice-of-life_comedy_action.jpg	radar_myheroacademia_bleach.jpg
sunjinwoo	arise	bar_1991-1999_2011-2019.jpg	

PYTHON PANDAS

Pandas will be the Python extension we will use to clean the original data set because we only want the top 1000 most popular on MAL. To prevent any errors, any categories containing a numerical value should be removed and any anime should not be red or grey which means that it is not safe for devo consumption so it will be omitted. We will also use Pandas to find a correlation between the popularity and values of the top 1000 most popular anime.

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DATA VISUALIZATION LIBRARY - Chart.js

We have chosen to use Chart.js because of its simplicity. We don't need anything overly complicated for this project, and the simple, consistent, nature of Chart.js works perfectly for us.

- Bar graphs and Scatter plots that are perfect for looking at more specific data
- Doughnut and Pie Charts for general data
- Unique charts such as radar charts which we might be able to use for comparison

APISs

We will not be using any APIs for this project.

TASK ASSIGNMENTS

- Marco:
  - SQL Database creation and functions
  - Python Pandas cleaning
- Abidur:
  - Python Pandas correlations
- Danny:
  - Backend flask routing
  - CSS and FEF (Tailwind)
- Endrit:
  - Data Visualization Library