

P4: Design Doc

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SoftDev

Period 2

Target Ship Date: 2023-5-26

Framework: Bootstrap

Datasets:

- Taylor Swift lyrics: <https://www.kaggle.com/datasets/thespacefreak/taylor-swift-song-lyrics-all-albums>
- Taylor Swift analysis: <https://www.kaggle.com/datasets/thespacefreak/taylor-swift-spotify-data>

Website Description: analyze Taylor Swift songs

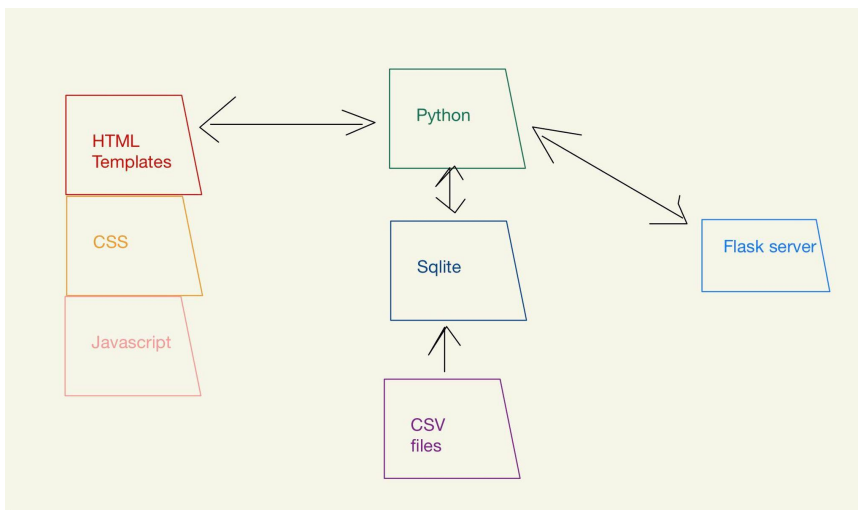
- Plot data of songs based on popularity, danceability, etc.
 - Data is interactive
 - Can view by albums or by song title
- Analyze what makes popular Taylor Swift songs popular
 - Data for entered Taylor Swift song
- BuzzFeed quiz: what song are you
- Song recommendations based on users favorite songs
- Profile page with user information

Bootstrap:

- We have all used bootstrap before so we are most comfortable with using bootstrap again
- Bootstrap have class names that are easy to use
- Bootstrap .navbar class to allow users to navigate through the different pages on our site
- Has a cool spinner!

SASS: We will be incorporating SASS from the TedTalks. We liked how flexible SASS was in comparison to just straight CSS. With SASS, it'll make formatting and changing the style of our website easier. We are familiar with SASS already as Wilson presented on SASS and Jasmine has prior experience using SASS.

Component Map



Python

- Connects database with flask server

SQLite3

- Store all login data for users
- Store all booked flights

HTML Template

- Used to build up website in conjunction with flask

Flask

- Flask will render html templates onto the browser

Front End Framework (Bootstrap & SASS)

- Will beautify the website
- Use SASS to simplify CSS stylesheet

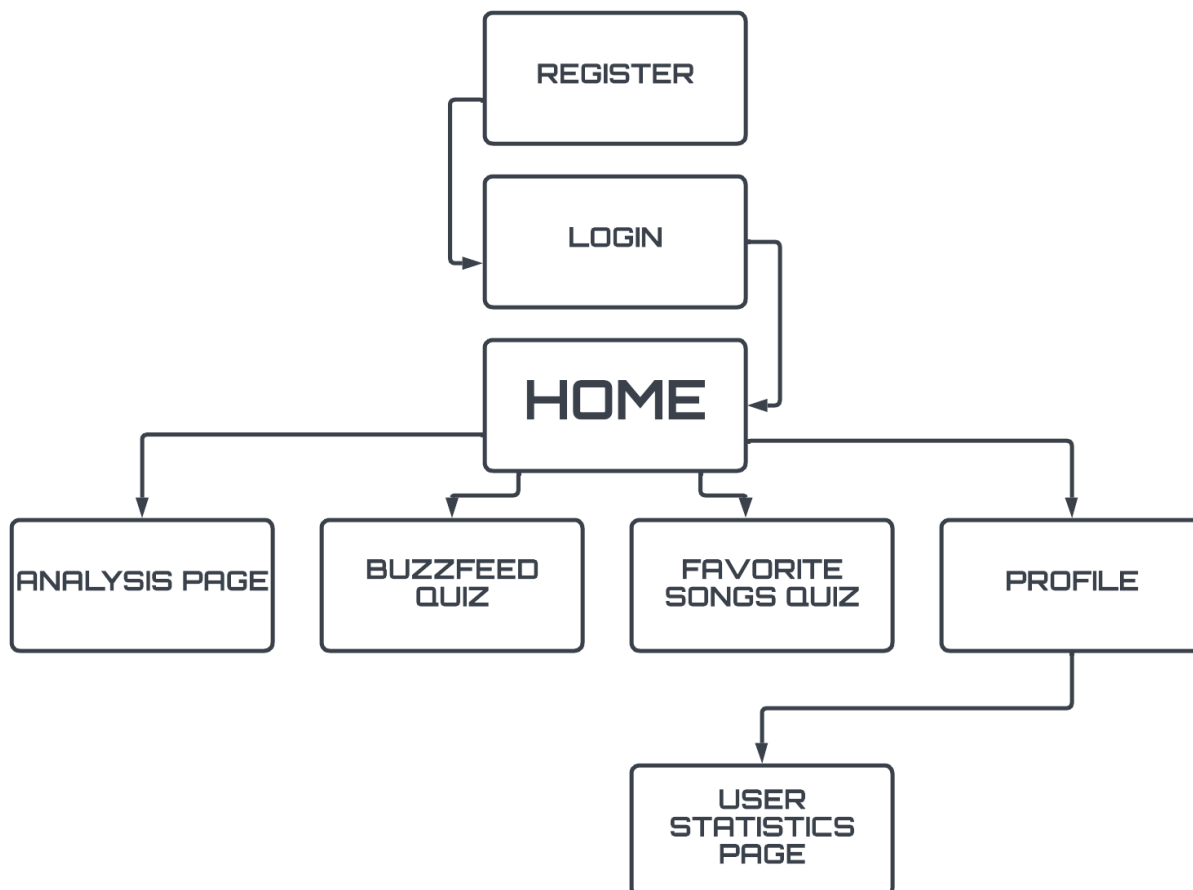
Javascript

- Making the site interactive and to plot charts

Database Organization

- User login information is stored
- User has bio, username, profile
- Previous buzzfeed test results stored
- Users top favorite songs stored

Site Map



Login Page

- User inputs username and password to enter website

Register Page

- User inputs new unique username and creates a password

Home Page

- Description of who Taylor Swift is
- Albums with song lists
- Will have a dropdown menu for Analysis Page, Buzzfeed Page, Favorite Songs Page

Analysis Page

- Graphs analyzing Taylor Swift songs and what makes them popular

Buzzfeed Page

- Based on questions answered by user, they will be assigned a Taylor Swift song

Favorite Songs Page

- User inputs favorite songs and website recommends user their songs

Profile Page

- Buzzfeed results
- Favorite songs
- Songs recommended
- User description

Breakdown of Tasks

- Jasmine: SQLite3 & Bootstrap & SASS
- Wilson: Javascript & HTML & SASS
- April: Flask & Python