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p02-RoH: TuneTown - Social Media for Music Lovers

2025-01-08

Time Spent: 2 hours

TARGET SHIP DATE: 2025-01-17

Brief Overview

TuneTown is a social media web app for music lovers, structured similarly to Myspace and its parody SpaceHey. Users will be able to create profiles and review songs. The Spotify API will allow users to search up musical artists and learn about their discography.

Components

- Flask app: Host web page, connect frontend and backend
- Databases: Store users and blogs
 - User accounts: Profiles including username, display name, profile image as image link, background image as image link, and an about me section
 - Blog posts/reviews about music: Allow users to review artists/tracks/albums
- Spotify API integration: Allow users to search up desired information about musical artists and their works
- HTML templates: Provide layout for web pages
- CSS: Provide style for HTML templates
- Tailwind: Frontend framework

Templates Folder

- login.html
 - Allows the user to input a username and password
- signup.html
 - Allows the user to register an unused username and password to be added to the database
 - Profile fields (profile picture/background image/about me) is filled in with placeholders until user modifies
- error.html
 - It will be rendered when an error occurs (e.g., a user tries to create an account with the same username as another user).
- index.html
 - Visible to all

- Explains the purpose of the site and shows other's profiles (clickable for more info)
- Has a navbar for all other pages for ease of navigation
- profile.html
 - Shows your profile
- model.html
 - Shows another user's profile
- settings.html
 - Allows users to change their "about me"
 - Allows users to change their profile pictures and background pictures by pasting in an image link
- search.html
 - Search bar and parameters for search (artist/track/album) as checkboxes
 - Search artist for artist's top songs/albums/etc
 - Search song for track length/release date/etc
 - Search album for track list/featured artists/etc
 - Displays all results
- review.html
 - Make new review

APP Folder

- setup_db.py
 - Use SQLite3 to create a database of user information (username and password).
- spotify.py
 - All spotify functions
- __init__.py
 - Initializes the app.
- config.py
 - Checks that API keys exist and are stored in the right place.
- keys folder
 - key_spotify_client_id.txt
 - key_spotify_client_secret.txt
 - readme
 - Explains how to get the API keys
- Templates Folder
 - login.html
 - index.html

- signup.html
- create.html
- model.html
- review.html
- settings.html
- error.html
- login.html
- profile.html
- search.html

Frontend Framework

- Tailwind
 - We decided to use Tailwind because it's easy to understand and consistent. We use its button/box customization.

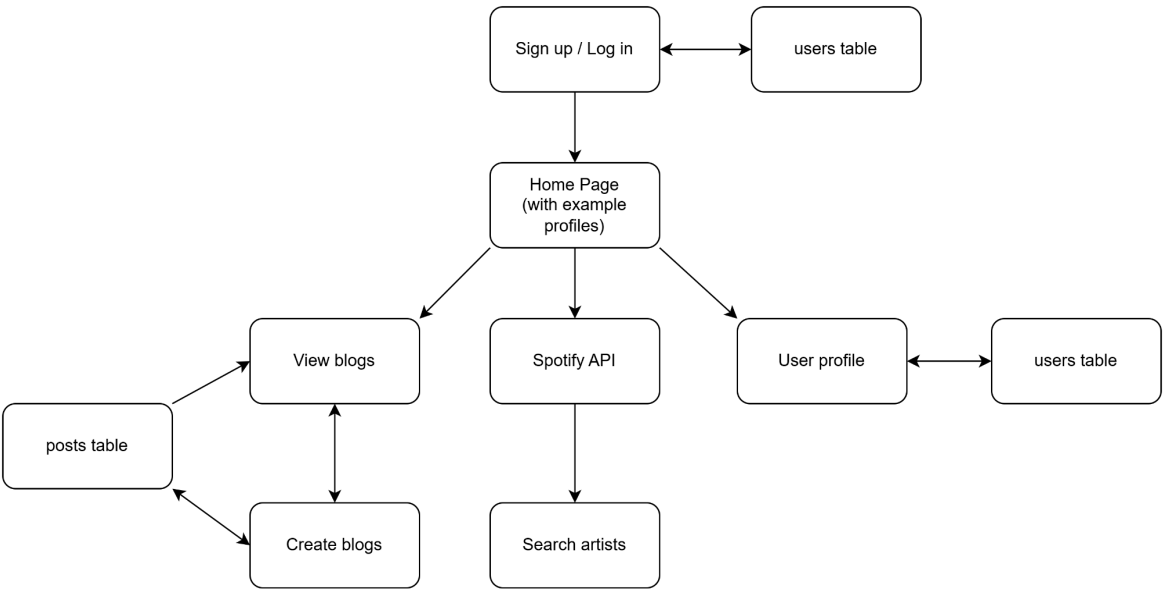
APIs

- Spotify API
 - Allows users to search for Spotify content (e.g., artists, albums)
 - Allows users to find information about searched content
 - Utilizing this, Spotify links can be easily embedded into posts
 - Requests are rate limited within a rolling 30-second time frame (the exact number of not calls allowed is not shared, but its 60+/30 secs)

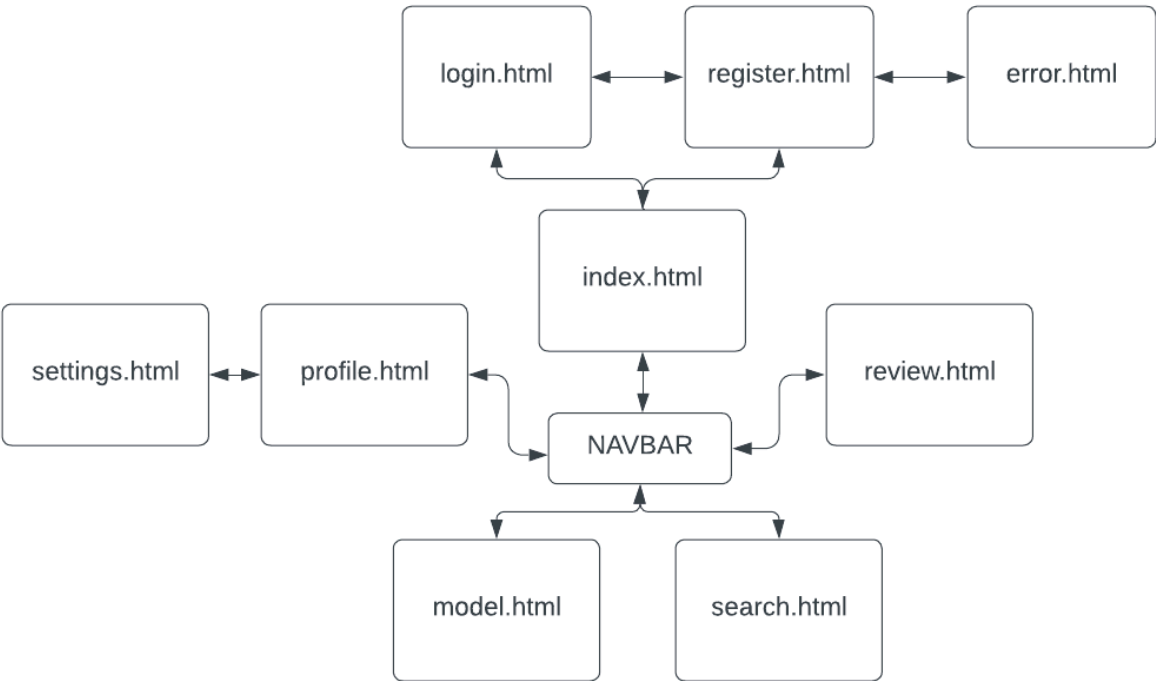
Documentation and Assets

- design.pdf
 - This document. Devos should refer to and edit it often.
- flag.jpg
 - Our team's flag. Proudly portending greatness.
- README.md
 - Roles, description of website, how to, etc. Please read it.
- devlog.txt
 - Updated by each group member after they push to GitHub and make changes. Maintained by PM. The most recent entry goes on the bottom detailing changes and bugs.
- requirements.txt
 - Lists flask and pip installs needed to run the application

Component Map



Site Map



Database map

users

index	username	password	pfp	background img	aboutMe
INTEGER	TEXT	TEXT	TEXT	TEXT	TEXT

posts

index	username	post
INTEGER	TEXT	TEXT

Assignments

<u>Task</u>	<u>Assigned To</u>
Flask App Development	Chloe, Claire
Database Engineering and API Implementation	Sasha (PM)
HTML and CSS/Tailwind	Moyo
Design Doc, Devlog, Testing, and Debugging	All members