Moodify

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Agenda

1. Brainstorm
2. Choosing an idea
3. Moodify application
4. Coding
5. Testing
6. Improving performance

Introduction

- Our group thought of designing an application where Spotify users might connect their accounts with other users through their playlist features.
- For example, we will define the different types of songs based on their moods and the five moods our group created were euphoric, sad, peaceful, dramatic, and romantic.
- Each playlist will be classified with a specific label and that label represents the mood of that playlist. Our application will collect the data from Spotify and match up users if they have similar music tastes.

Tools

Project tracker: Github board– ranking 3 stars

VCS repository: Github – ranking: 4 stars

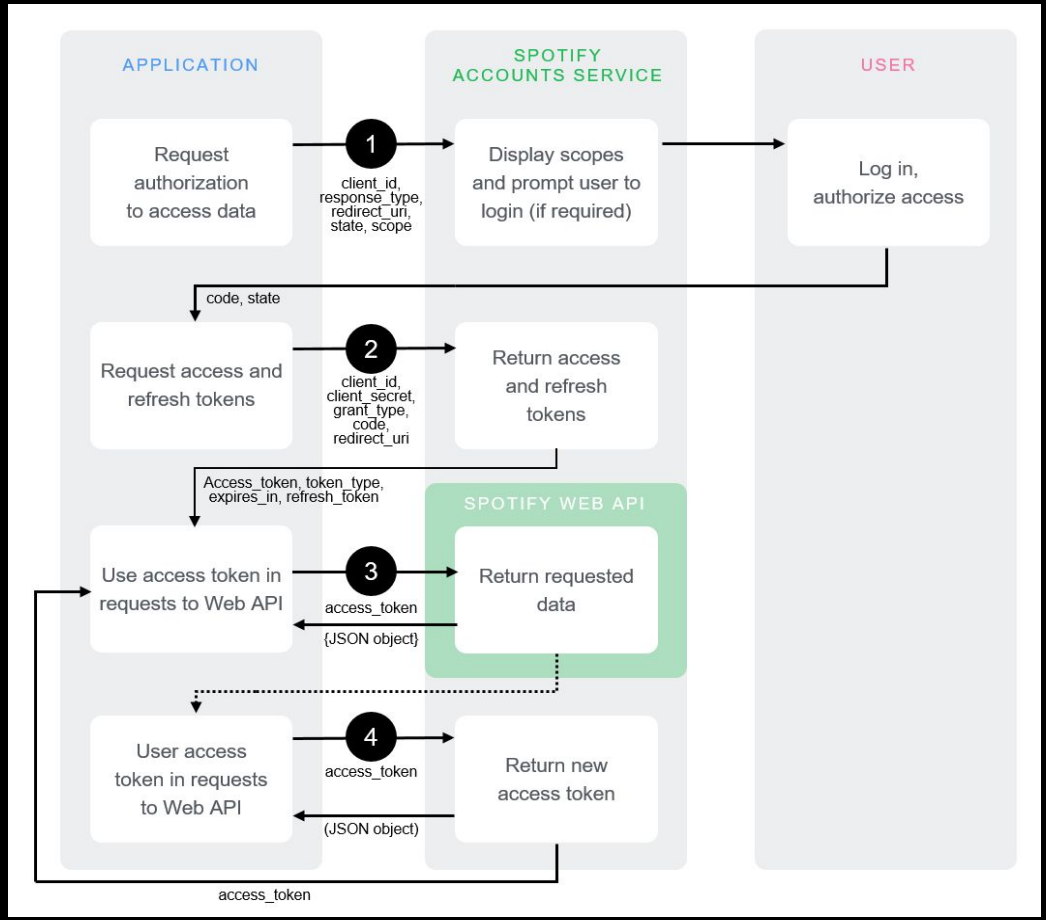
Database: PostgreSQL – ranking 5 stars

IDE: VScode – ranking 4 stars

Deployment environment: LocalHost – ranking 5 stars

Docker – ranking 5 stars

— Architecture Diagram



Challenges

- Creating sql database and tables
- Spotify authentication set up, took a while to get familiar with the documentation
- Spotify has over 6000 genres, accurately classifying them into proper moods would have become an ML project
- Playlist endpoint or song did not return array of genres
- Had to go into each songs artist to retrieve the genres
- Rate limit exceeded, we ended up exceeding the rate limit of Spotify API reqeusts

Future Scope / Enhancements

- Enhancing connection speed
- Improving the accuracy of song classification
- Continuously improve the user interface
- Make sure to get the newest data from Spotify
- Diversify moods and make them more descriptive

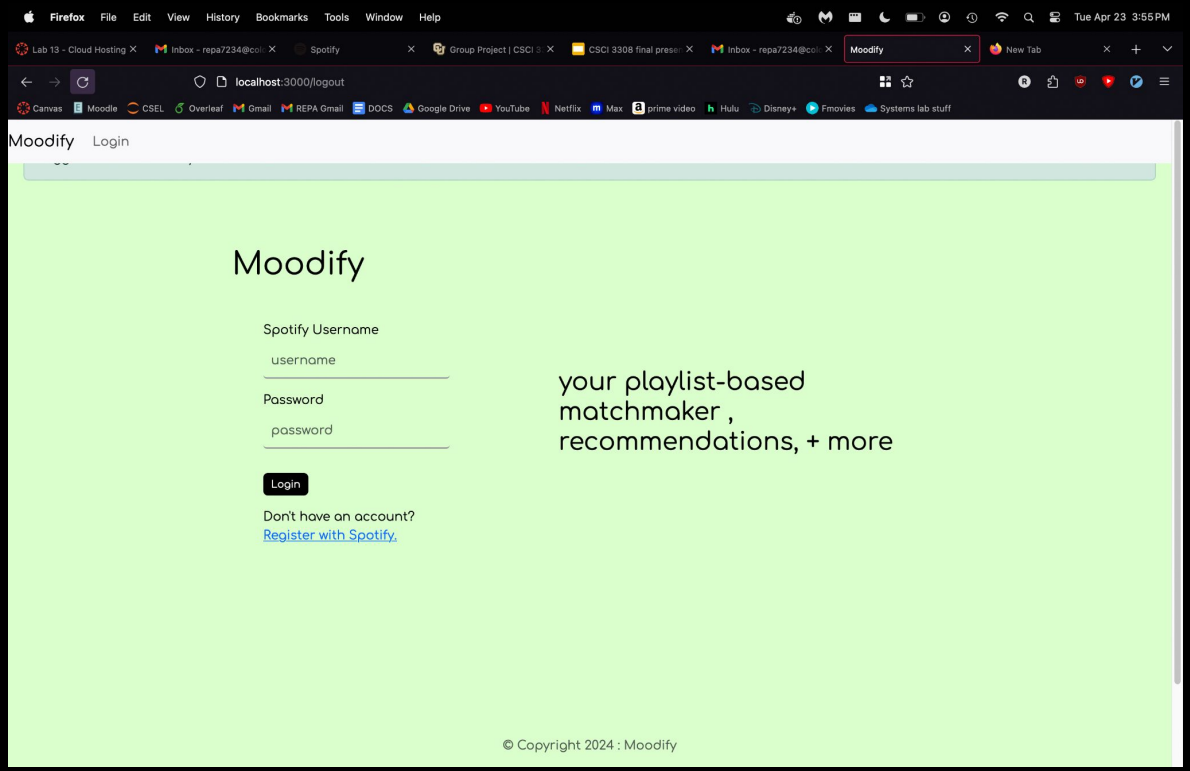
Functionality

1. Login with spotify
2. Registration with our website
3. Created functions to gather data from playlists to generate moods and get playlists data
4. Application interface design

Progress

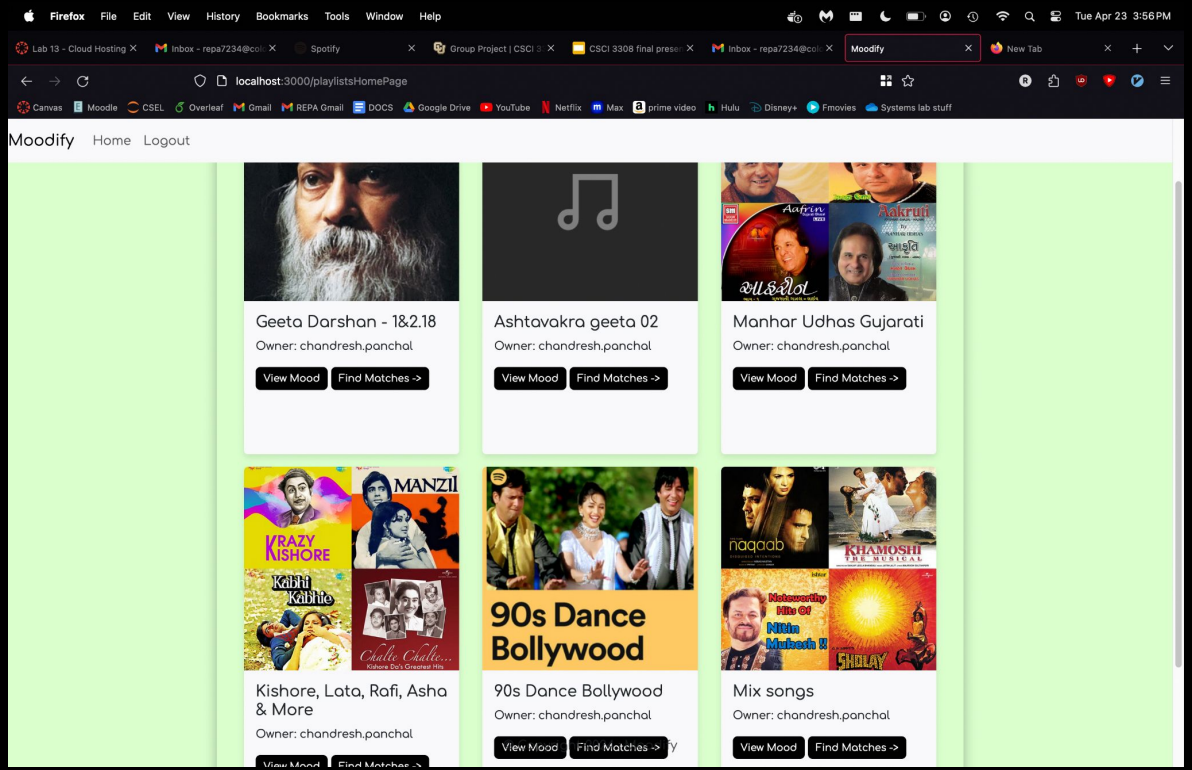
1. Created the login and register page
2. Connected the Spotify API
3. Function that classified the songs’ genres
4. Tested the connection stability
5. Finished the user interface and playlist page
6. Tested the connection between our database and the web service

— User Interface



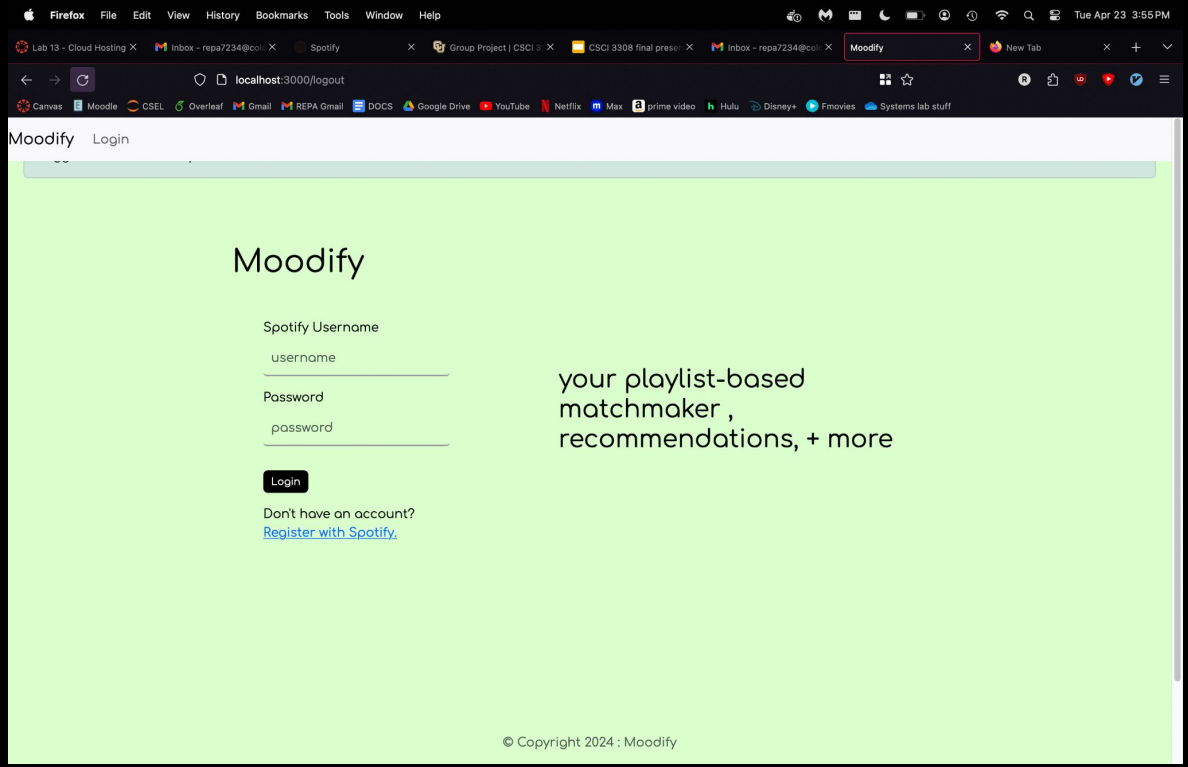
Login/Register page

User Interface



Playlists page

— User Interface



Logout page - brings users to login page again

Summary

- Moodify is a user-friendly music application that connects users by exchanging similar music playlists.

- When we faced challenges, our group continued to solve application performance through debugging.

DEMO

Q & A

Thanks for watching!!!

Any questions???