FindMyClass: Simplify Your CU Boulder Course Search

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Project Overview

Our application, named "FindMyClass", is designed to streamline the process of exploring and validating courses available in the University of Colorado Boulder (CU Boulder) database. With the ever-expanding array of courses offered by academic institutions, navigating through them to find relevant ones can be a daunting task. FindMyClass aims to alleviate this challenge by providing users with a user-friendly interface to search for any class available in the CU Boulder database.

Through FindMyClass, users can effortlessly search for courses by entering keywords, course codes, or specific criteria. The application will then retrieve and display comprehensive information about each course, including its title, description, instructor, schedule, prerequisites, and any other relevant details. This functionality not only simplifies the process of finding courses but also enables users to make well-informed decisions about their academic pursuits. Whether students are planning their course schedules, exploring new subjects, or seeking prerequisites for advanced classes, FindMyClass will serve as a valuable tool in their academic journey.

Every Tool Employed

Express+Node.js (5) - Application server (Node.js framework)


VScode (5) - IDE


Docker (3) - Build and run project (lots of issues run into)


GitHub (4) - VCS repository and Project tracking


Azure (5) - Cloud hosting (dead)

LocalHost (5) - Hosted on local computer

Every Tool Employed

PostgreSQL (5) - Database

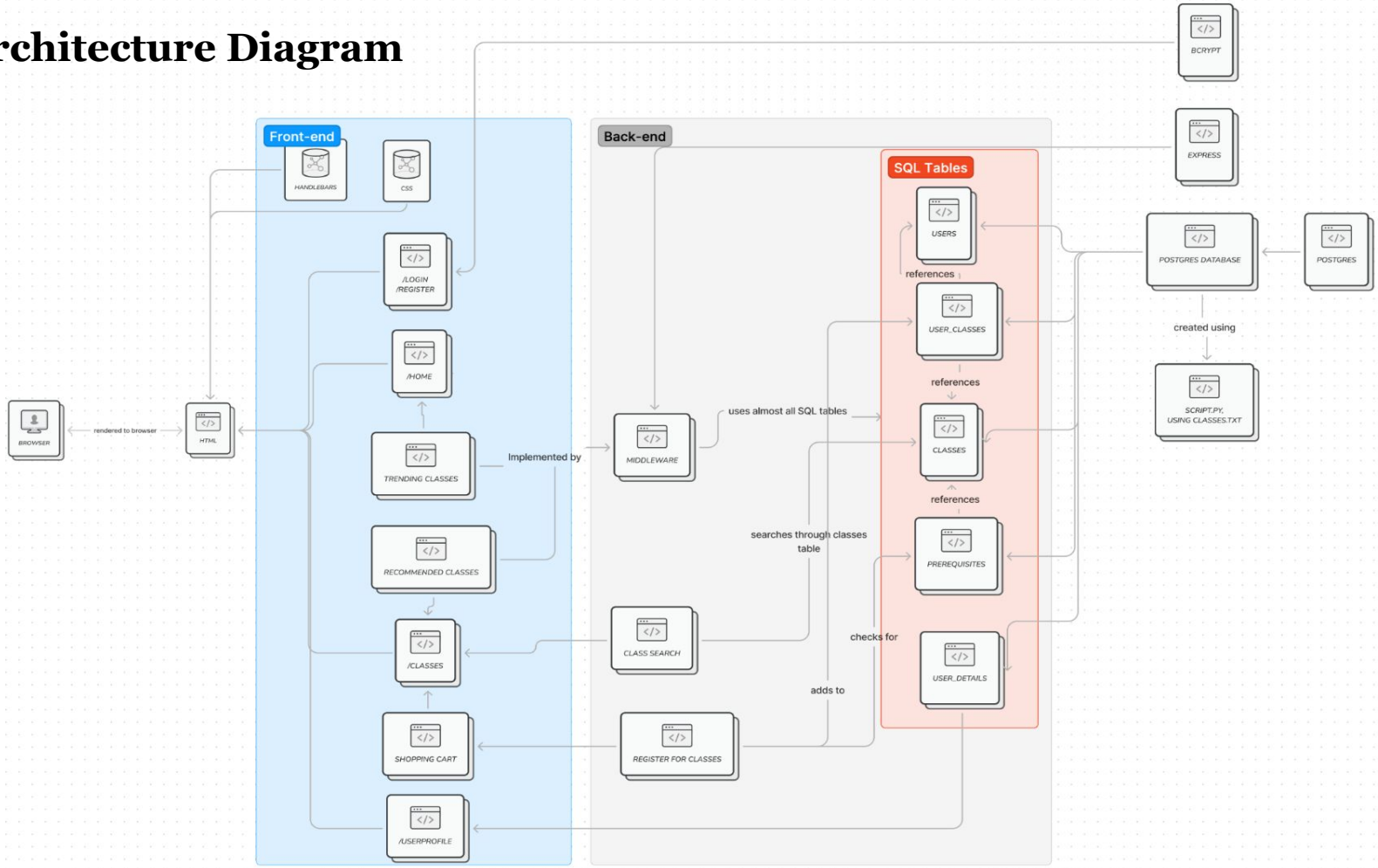
HTML (5) - UI

HandleBars (5) - UI

Discord (5) - Communication

Scrum Methodology (5) - Evolving project, make enhancements more easily

Architecture Diagram



Challenges

Technical Difficulties

- **Challenge:** Ensuring smooth operation across all operating systems for our project file management system.
- **Solution:** Windows and Linux users initially faced challenges with file path formatting, whereas Mac users didn't encounter these issues. However, we managed to address these issues through simple error corrections or by deleting and recloning the repository.

Version Control

- **Challenge:** Effectively managing code changes and collaborations.
- **Solution:** Employed Git as a version control system, adopted branching techniques to isolate feature development, and conducted routine code reviews to identify errors and uphold code excellence.

Decision Making

- **Challenge:** Selecting a design layout for the website.
- **Solution:** Explored various design possibilities, collected input from the team, and picked the layout that aligned most with user requirements. Crafted a visually enticing and user-centric website, guaranteeing a delightful user experience.

Effect on Initial Project Plans?

Future Enhancements

1. **Interactive Map Integration**

   Visualize class locations on a campus map, aiding schedule planning and navigation. Helpful for students unfamiliar with campus or with classes in multiple buildings, promoting efficient time management.

2. **Advanced Filter Options**

   Customize class searches by criteria like size, instructors, time slots, and instruction mode. Allows students to tailor their search for courses that best fit their needs, ensuring a more personalized academic experience.

3. **Real-Time Availability Updates**

   Instantly access class availability and receive notifications for open seats, streamlining registration. Eliminates the need for constant manual checking, ensuring students can secure spots promptly and reducing registration-related stress.

DEMO!

QUESTIONS?