Go Bird

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Motivation:

Our objective with Go Bird is to simplify and streamline campus parking. Our application enables users to conveniently check parking availability in advance and efficiently notify others about the spot they are using.

Components

React WebUI

- Allow users to enter the parking space they have entered.
- Allow users to see what parking spots are available/taken.
- Pushes information taken from user to the backend.
- Pulls information from back end to display to the user.
- Push/Pull done through Axios API.

Pull Stored Processed Data to GUI AXIOS

Pushes To back-end AXIOS

Database

- Store parking space number
- Store parking space location
- Store time parked
- Store allotted time to park there.

PULL from mySQL

PUSH Processed data

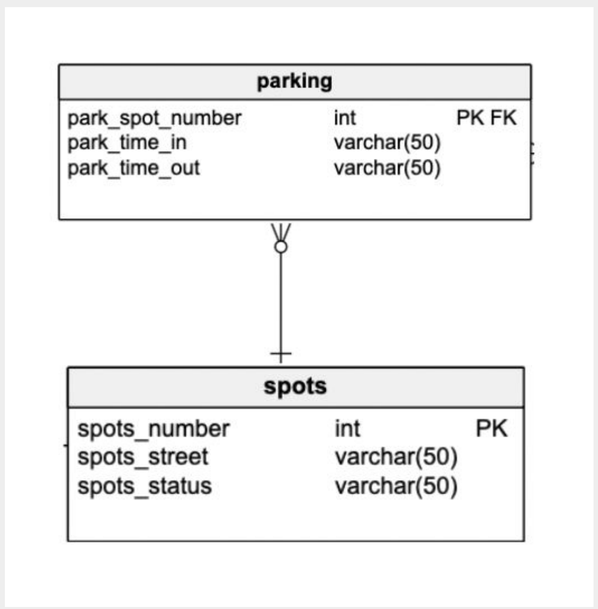
Back-End Logic

- Has timer function to record amount of time left in parking space.
- Relays information to the WebUI.

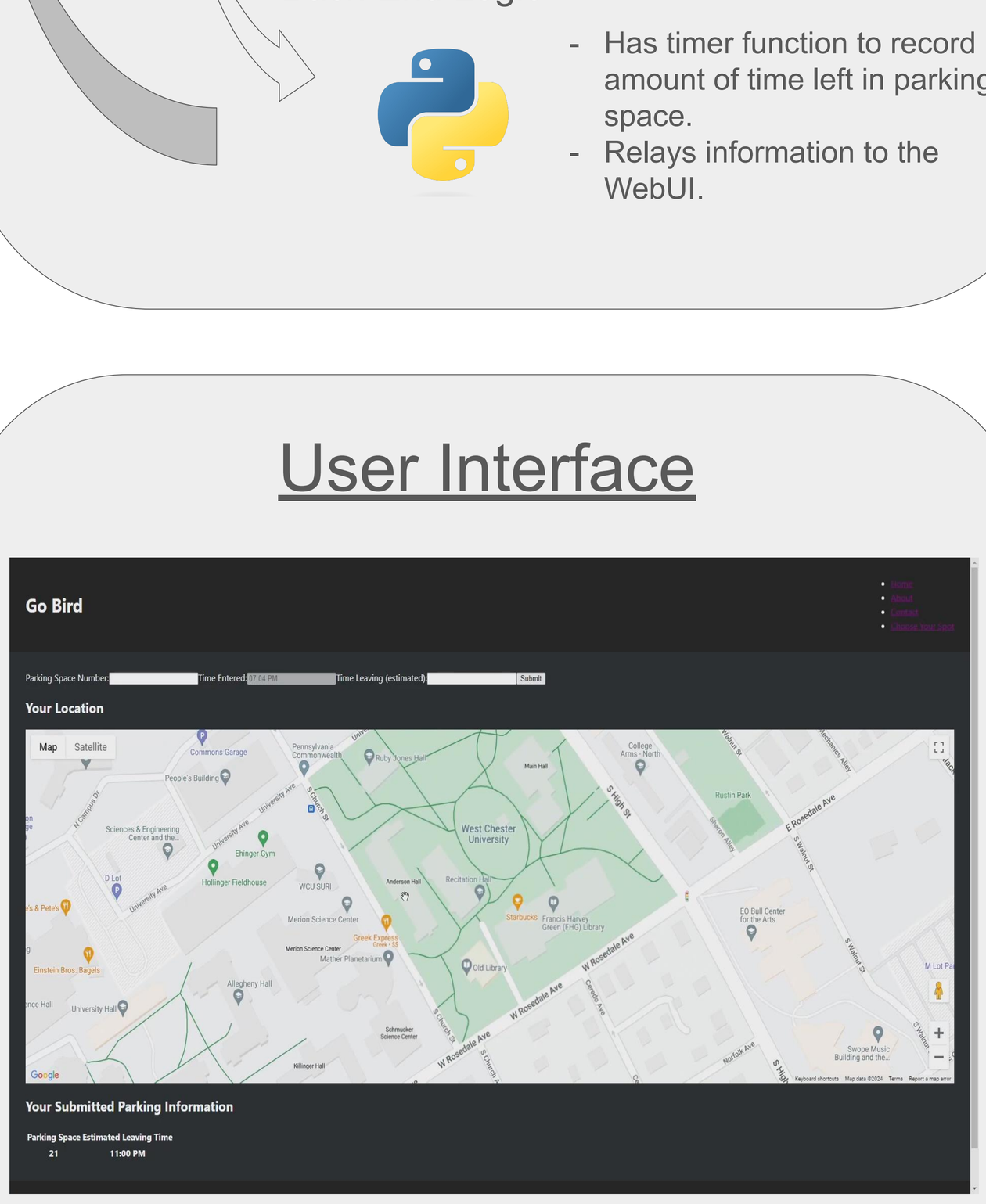
CI/CD

Database

MySQL database with tables to store all spots and current unavailable spots with the selected time in and time out.



User Interface



The user interface is composed of text on the main screen and purple underlines buttons that allow the user to navigate the website. The location page (shown below) has a space for the user to enter their parking spot and the time they will be leaving. The time is automatically set to the current time. Below is the google maps api that allows the user to see their current location and available spots. Below that is a chart that shows the currently taken spots, and what time they will be occupied until.