WSU PARKING REVIEW

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OUTLINE

1. What We Built
2. What the App Does
3. High-Level System Design
4. User Profiles & Usage Scenarios
5. Sequence Diagrams
6. Activity Diagrams
7. User Interface Design
8. Platform & Technologies
9. System Updates/Issues
10. Lessons Learned

WHAT WE BUILT

- A web application which will assist students with finding and choosing a parking structure at Wayne State University
- Users can rate the structures on a scale of 1 to 5 stars
- Users can write reviews detailing their experiences with the structure
- Anyone who visits the site can read reviews and get structure information
- The site will include a map with pins where the structures are located

WHAT THE APP DOES

Maintain an account system which allows anyone to sign up

Host an interactive map which displays the location of each parking structure

Enable users to rate parking structures

Enable users to write reviews of parking structures which anyone can read

Enable users to edit or delete reviews they have previously written

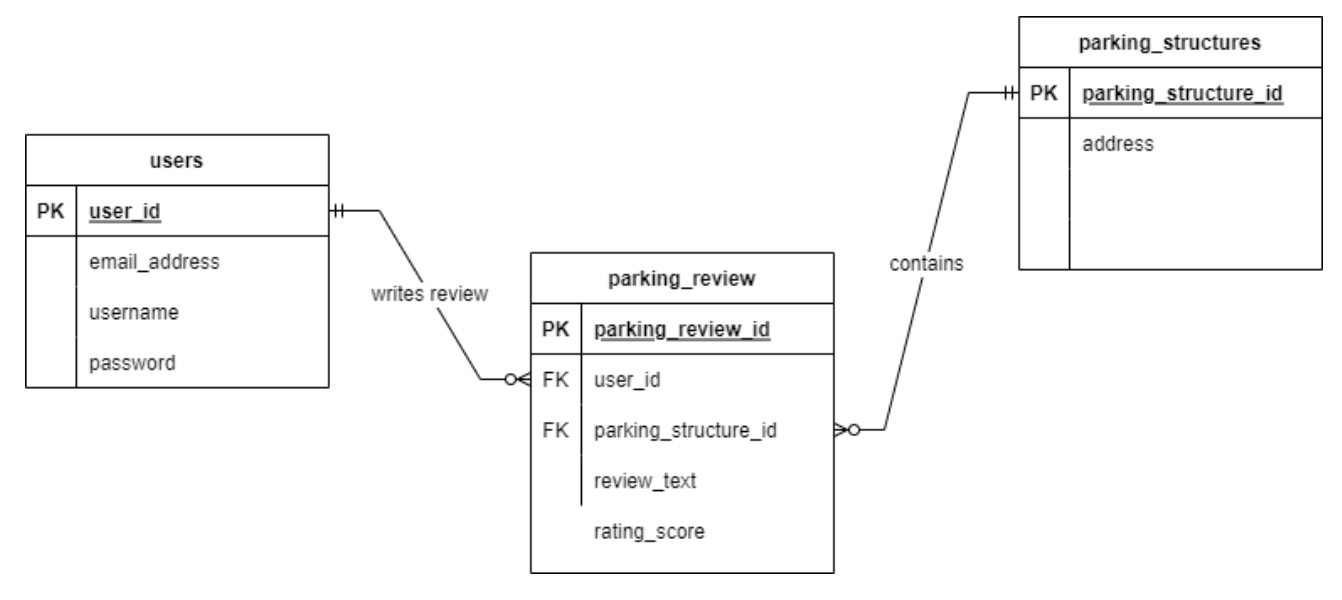
Provide the pricing, location, hours of operation, and other relevant information for each structure

USER PROFILES & USAGE SCENARIOS

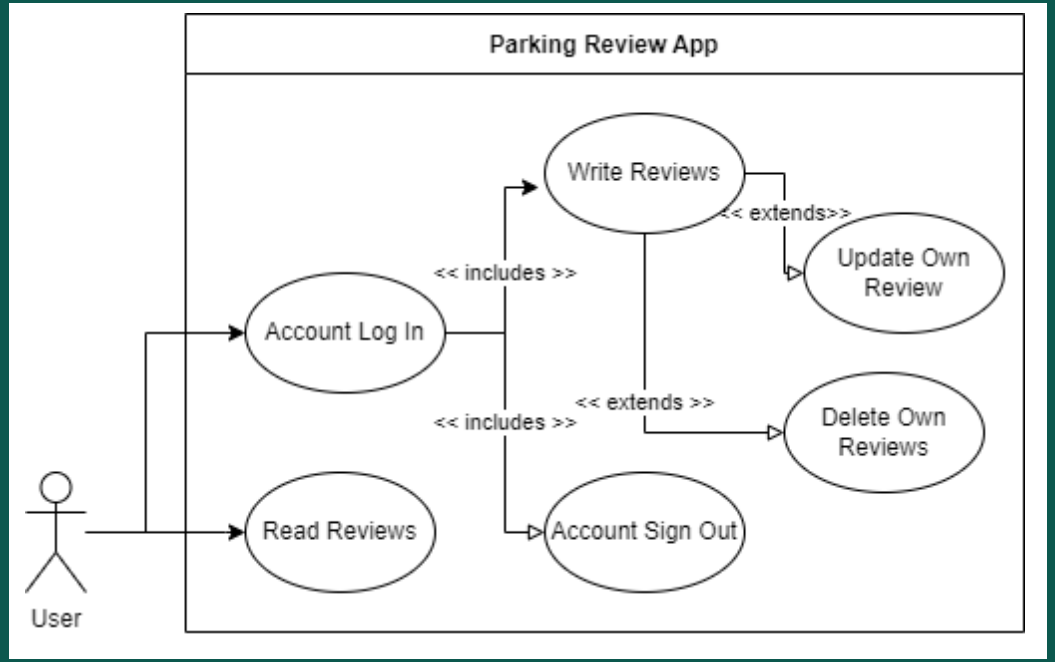
- The app is available to general public
- Intended users are WSU students and visitors who are interested in learning more about their parking options
- The primary usage scenario is to inform people about each parking structure so that they can make the best use of their time and money
- People who used the app to choose a parking location may want to contribute back to the app by leaving a rating and review

HIGH-LEVEL SYSTEM DESIGN

Entity Relationship Diagram

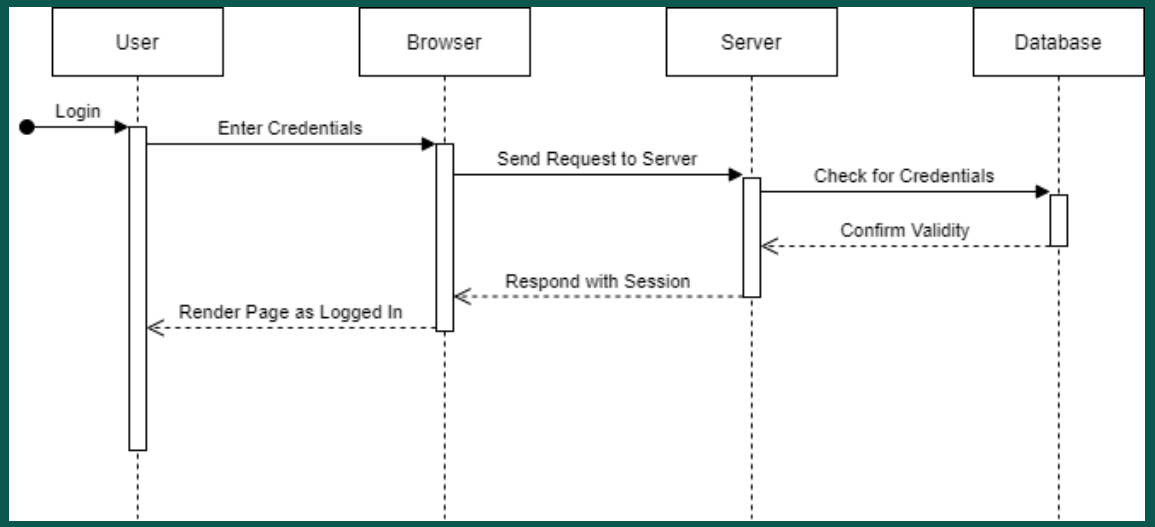


Use Case Diagram

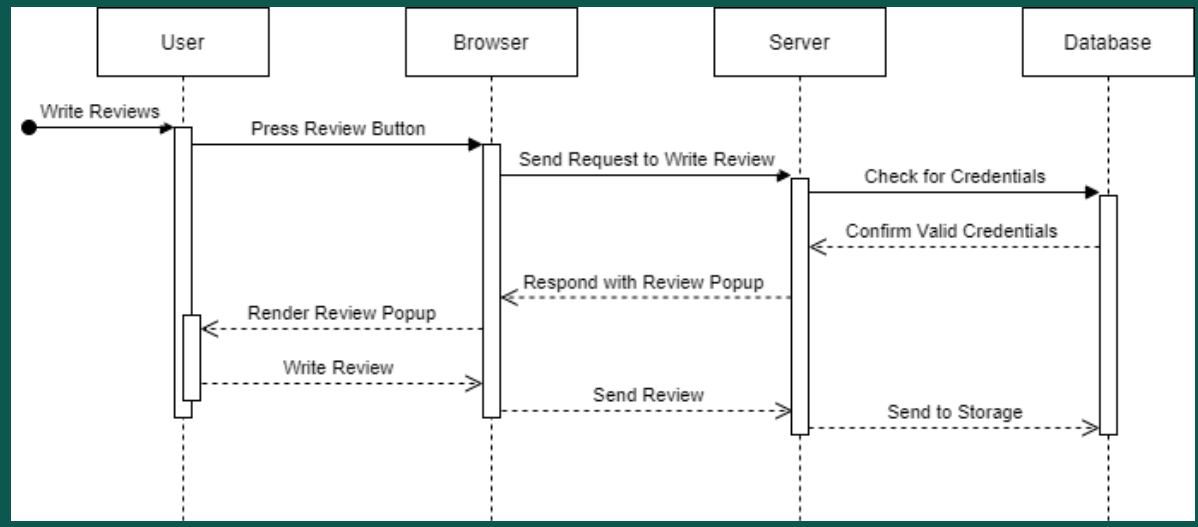


SEQUENCE DIAGRAMS

Login

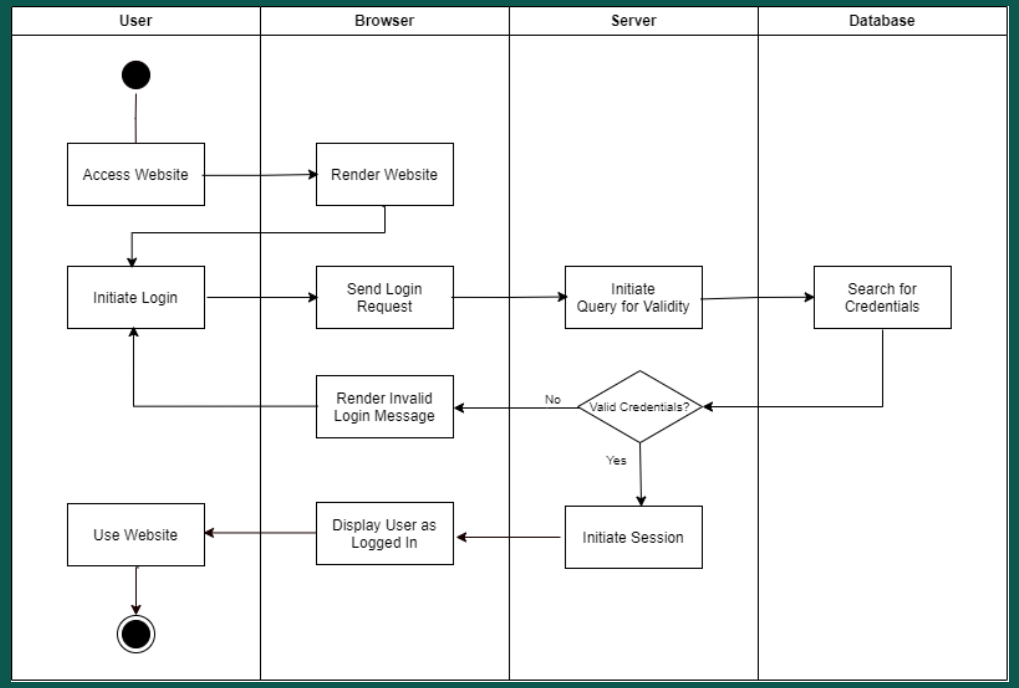


Write Review

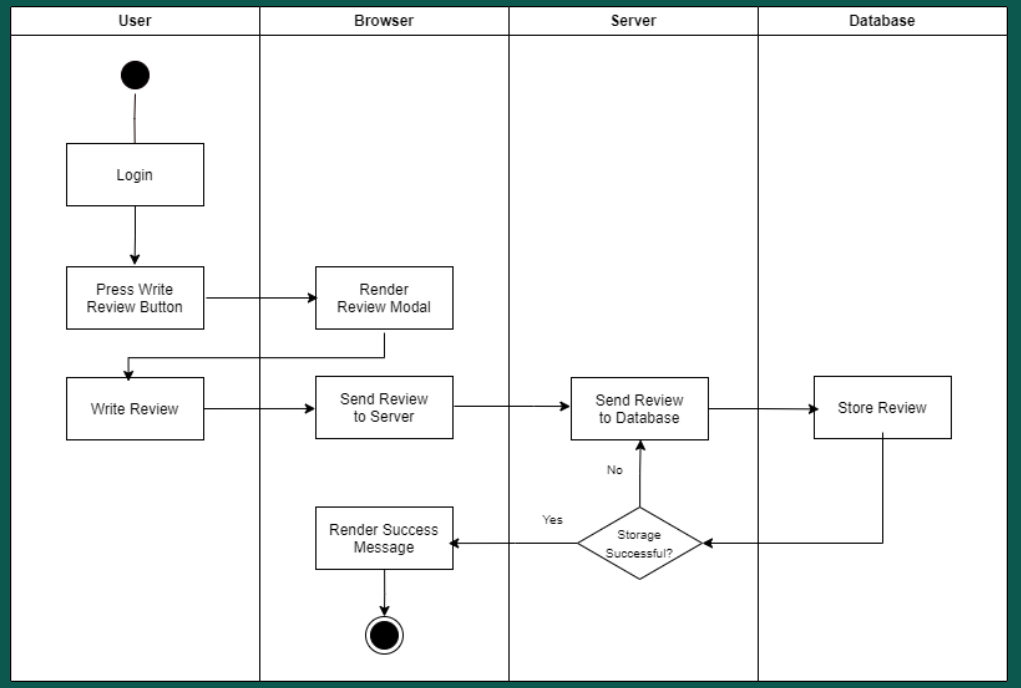


ACTIVITY DIAGRAMS

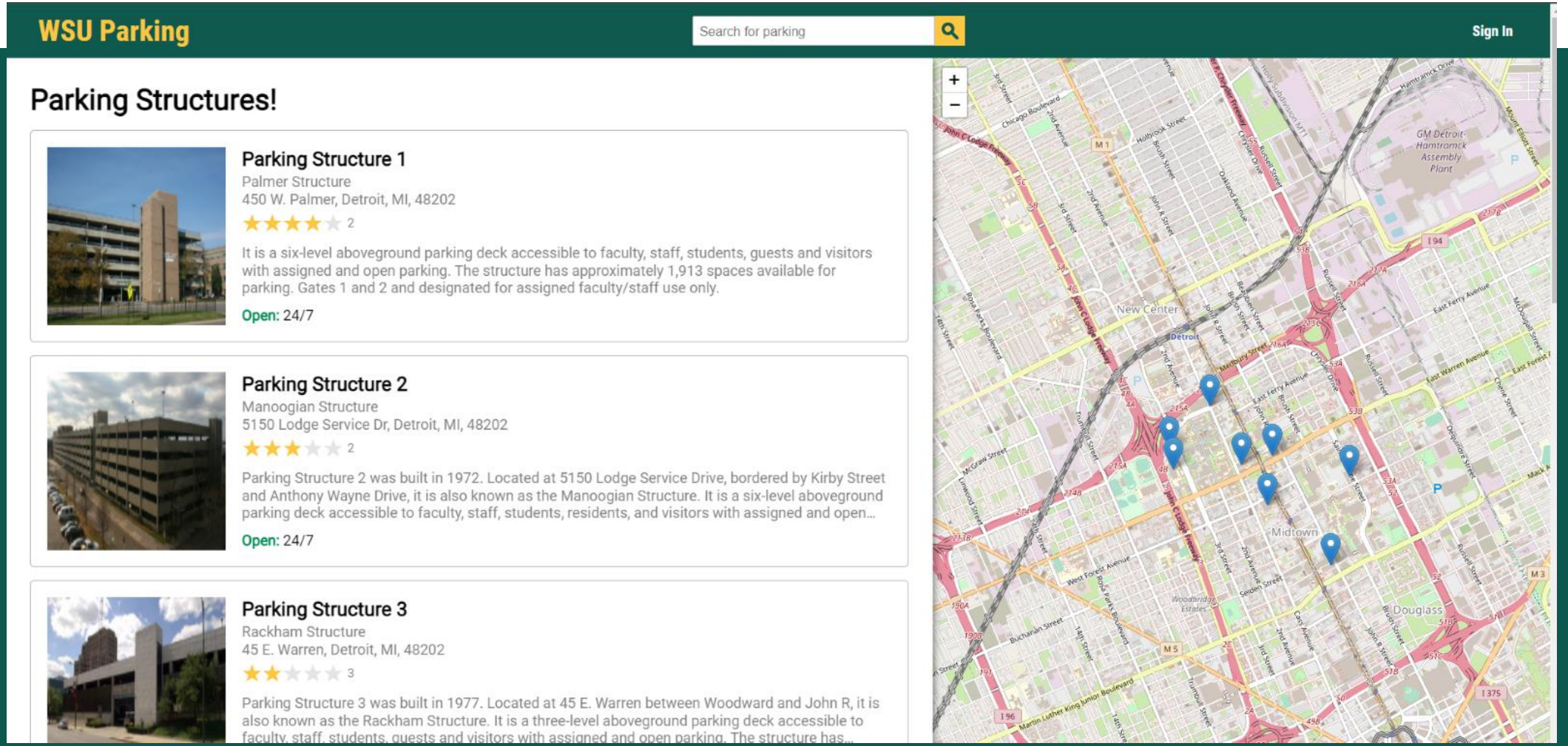
Login



Write Review



USER INTERFACE DESIGN



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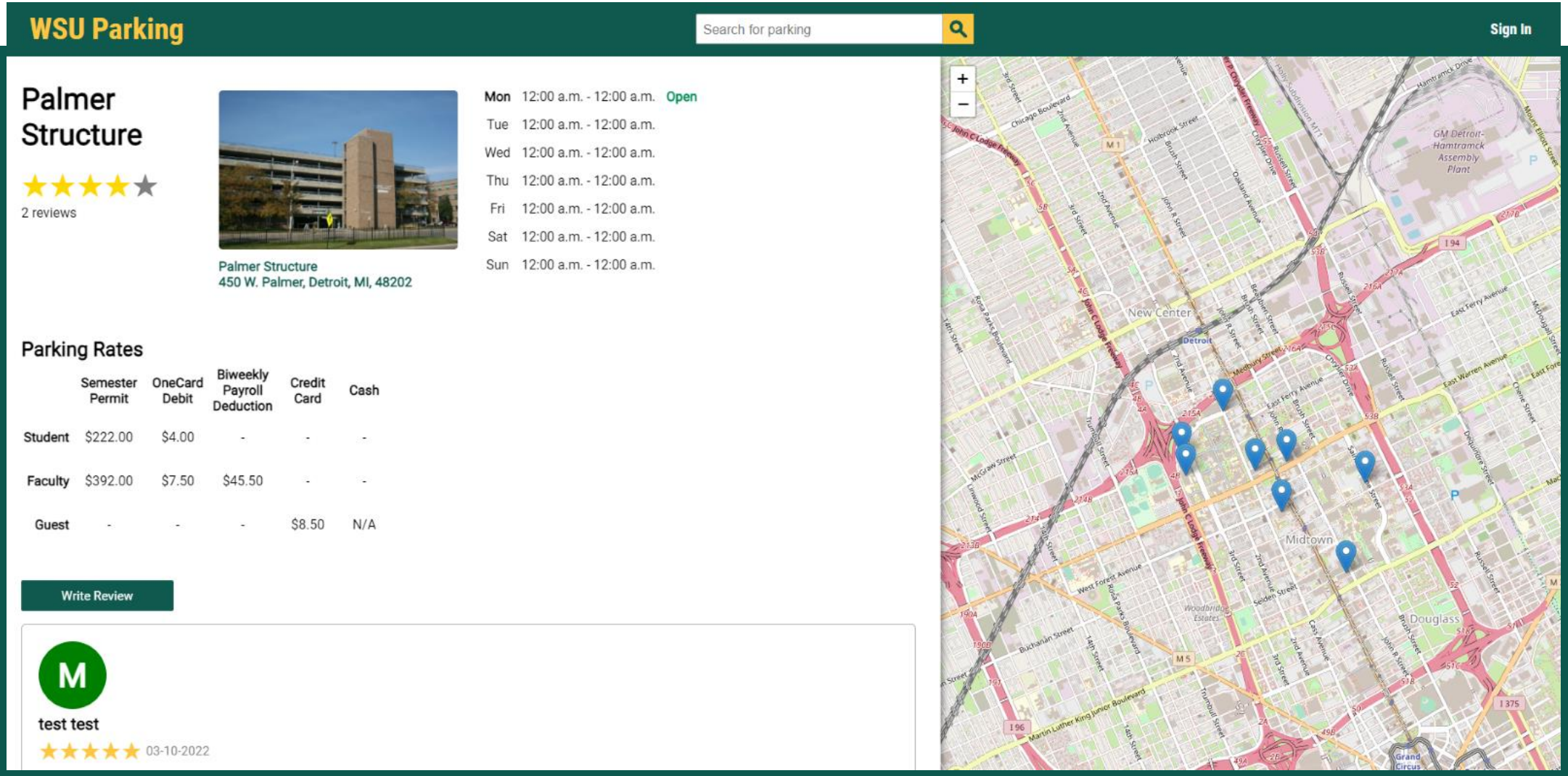
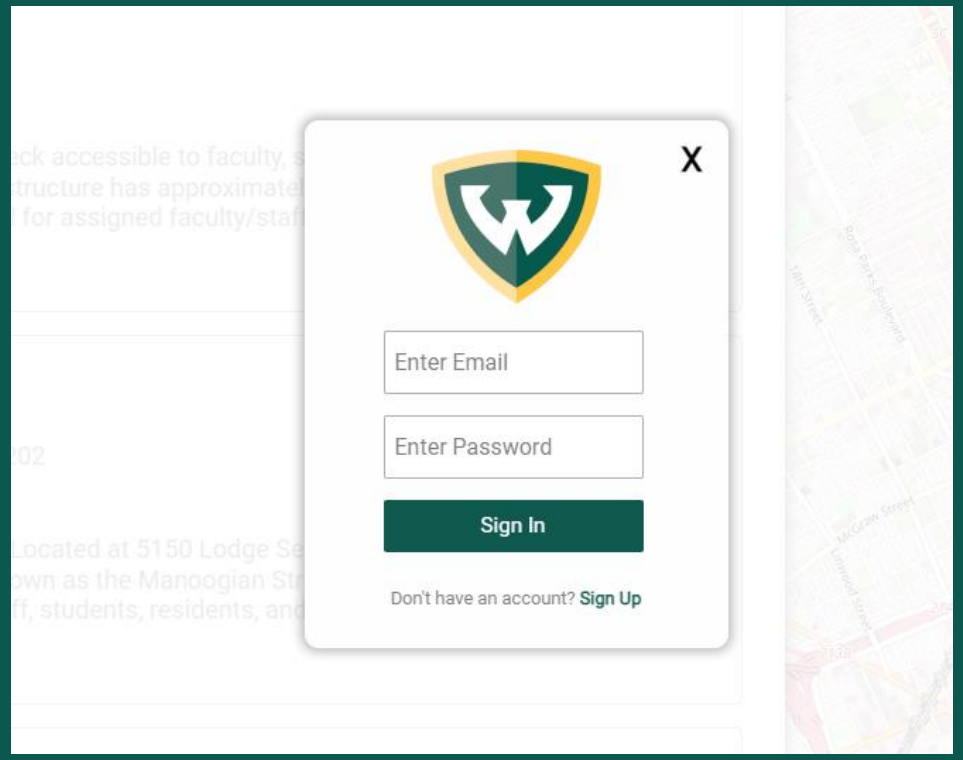
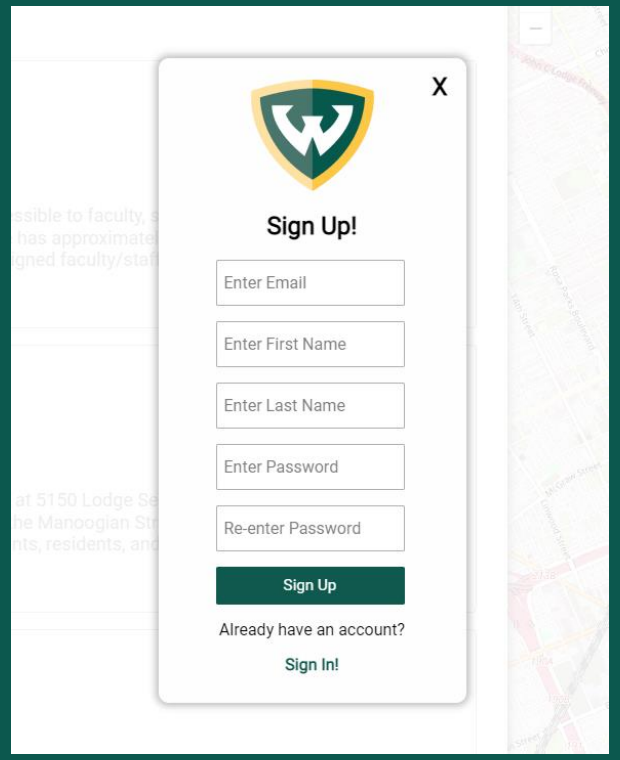


USER INTERFACE DESIGN

Login Popup



Sign Up Popup



USER INTERFACE DESIGN

User Review

PLATFORM & TECHNOLOGIES

ReactJS

ExpressJS

NodeJS

MySQL

GitHub

SYSTEM IMPLEMENTATION UPDATES AND OUTSTANDING ISSUES

1. Heroku free-tier dyno sleeping
2. Minor UI/UX updates

LESSONS LEARNED

- We learned many skills and lessons throughout the completion of this project. One lesson that we both learned was how to communicate and work together to break down and delegate larger tasks into simpler and more manageable pieces.
- Additionally, we both learned important skills for creating full-stack web applications, such as user experience/interface design and server code deployment.
- Another skill we learned was how to deploy a React project using Heroku and Netlify. The process of developing the site locally and then deploying it to a server was a big challenge for us, and it came with many unexpected challenges.