

ParkSmart

Team 2 Boolean Bros



Team Details

Nicholas
Burlakov



Austin Harrison



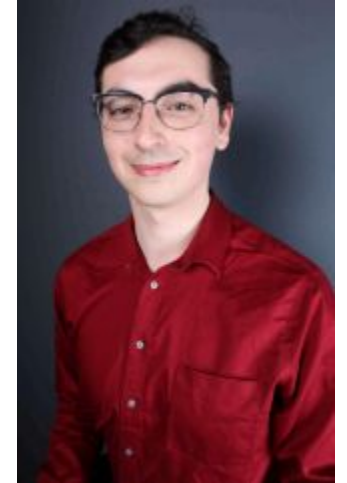
Dillon Pikulik



Caleb Stewart



Tyler Woody



Project Overview

- ParkSmart: Where parking meets precision, making every spot count
- Our website will revolutionize parking by allowing you to:
 - View parking spot availability in real time
 - See how public events/holidays affect parking fees
 - Compare rates based on the time and day



Requirements List

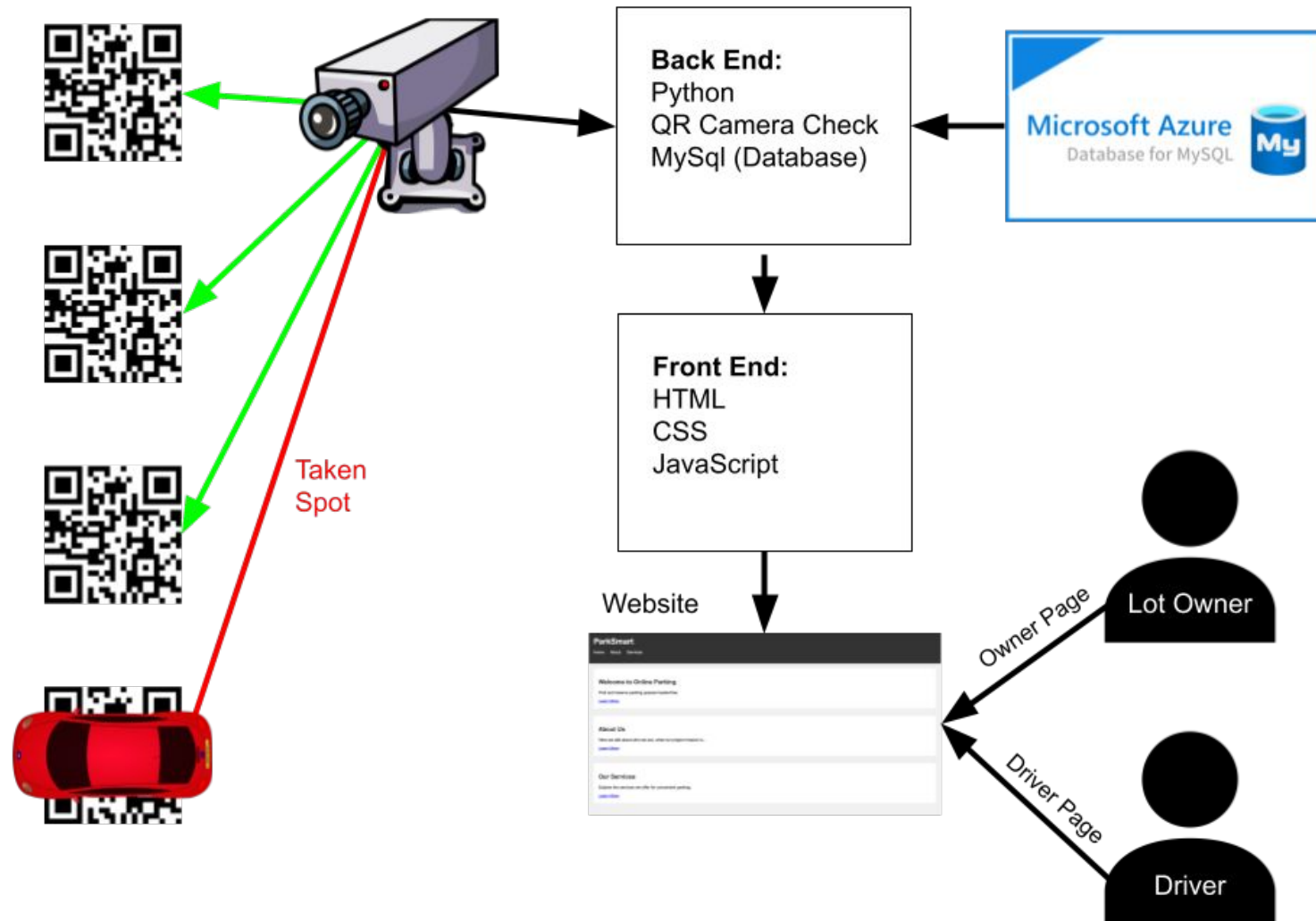
- R1: Constantly updating view of available parking spaces, with respective rates.
- R2: Users with parking lot owner privileges can see how full a parking lot is, and to check how much time each car has paid.
- R3: Login system to allow users to record their assets, such as cars and/or favorite parking lots.
- R4: Registered users will have a way to reserve spots in advance.
- R5: There will be a way for users to pay for their parking spot once they park or after they reserve their spot.

Project Solution Approach

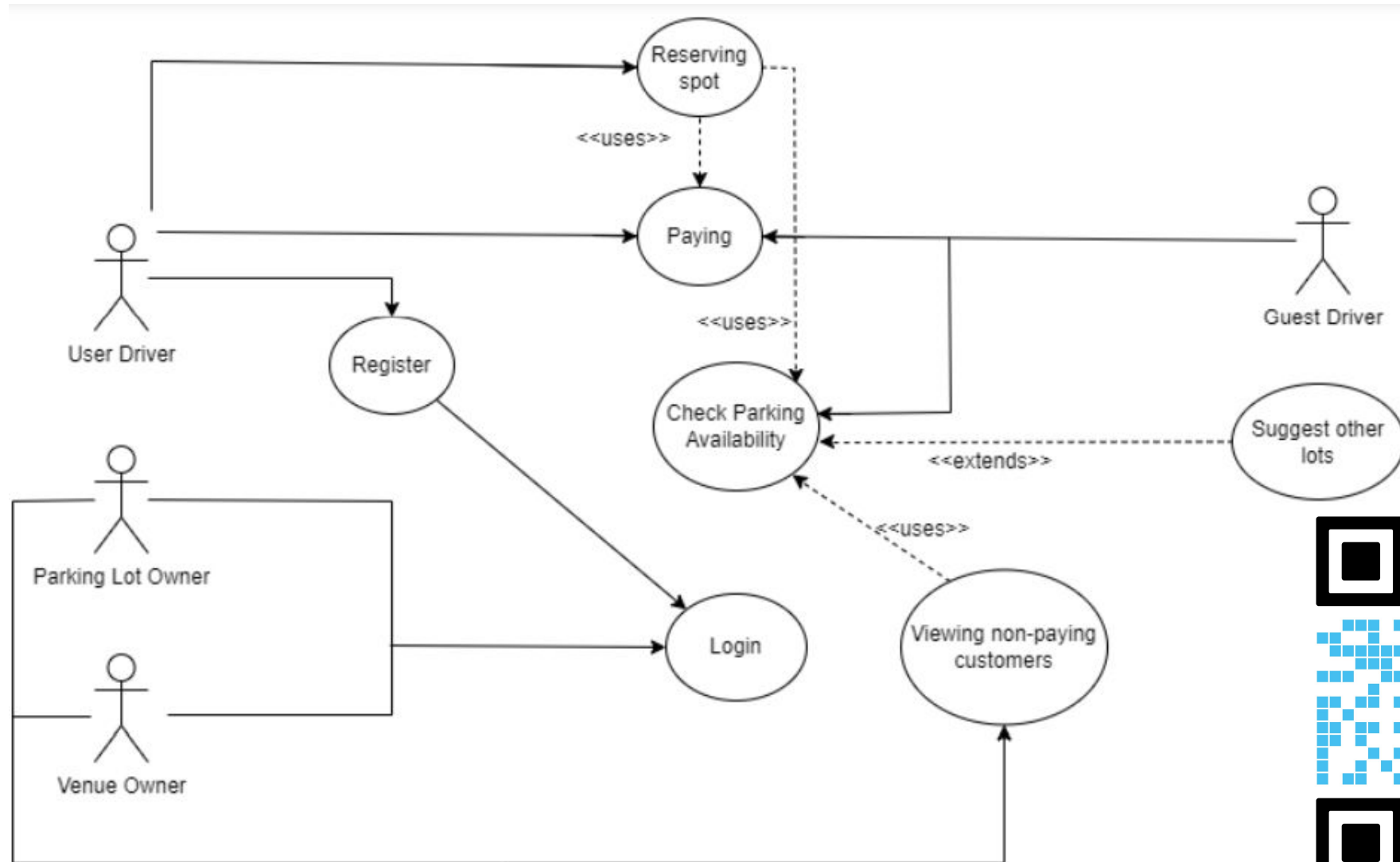
- Our major components in our solution design?
 - Deployed to Azure as a static web app
- What are the tools, frameworks, platforms, libraries, etc. that you'll be using
 - JavaScript/Vue3 frontend
 - Python backend for versatile functionality
 - Azure SQL database for painless (more or less) API calls
 - QR scanner to update parking availability



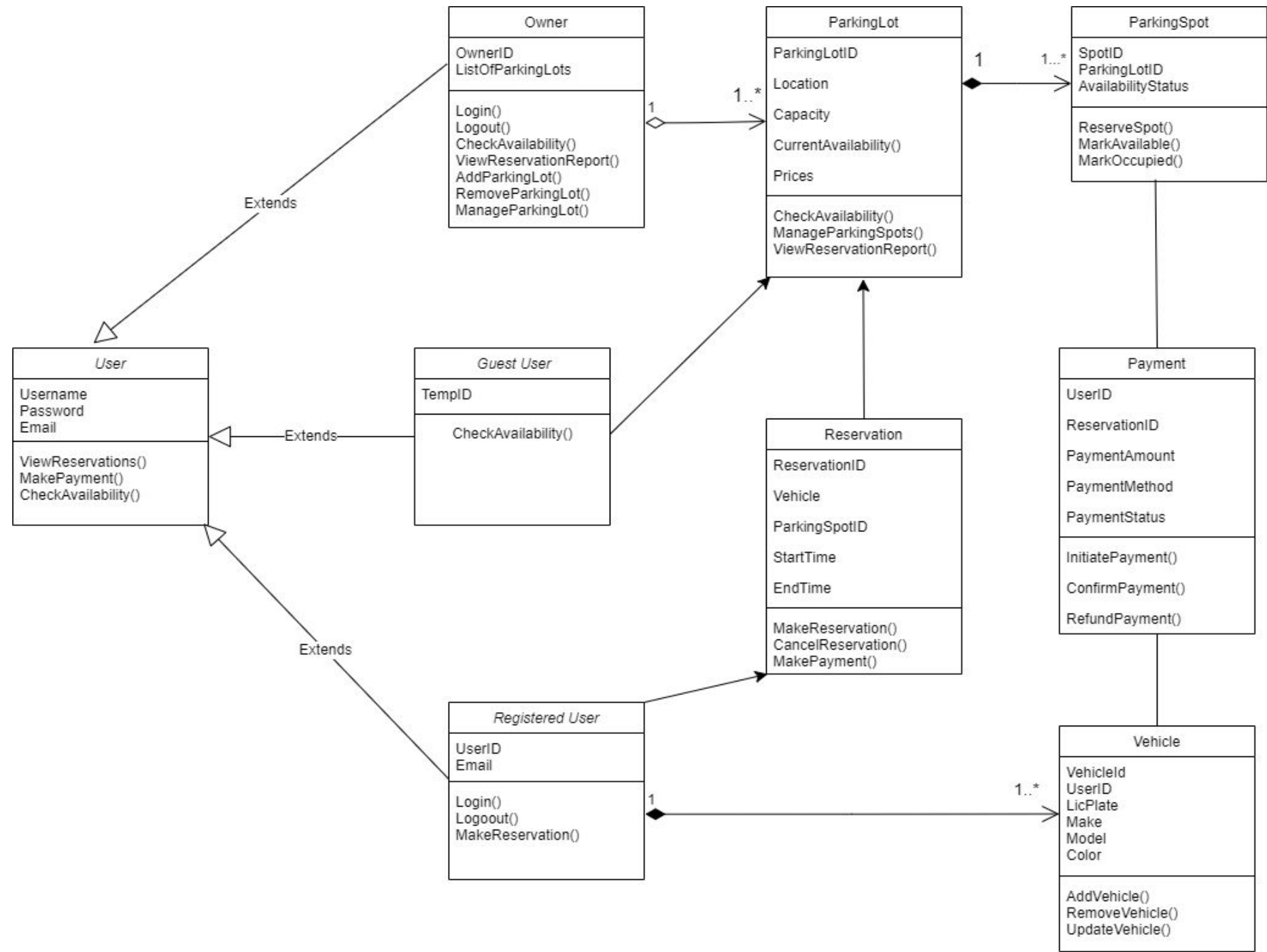
System Architecture Diagram



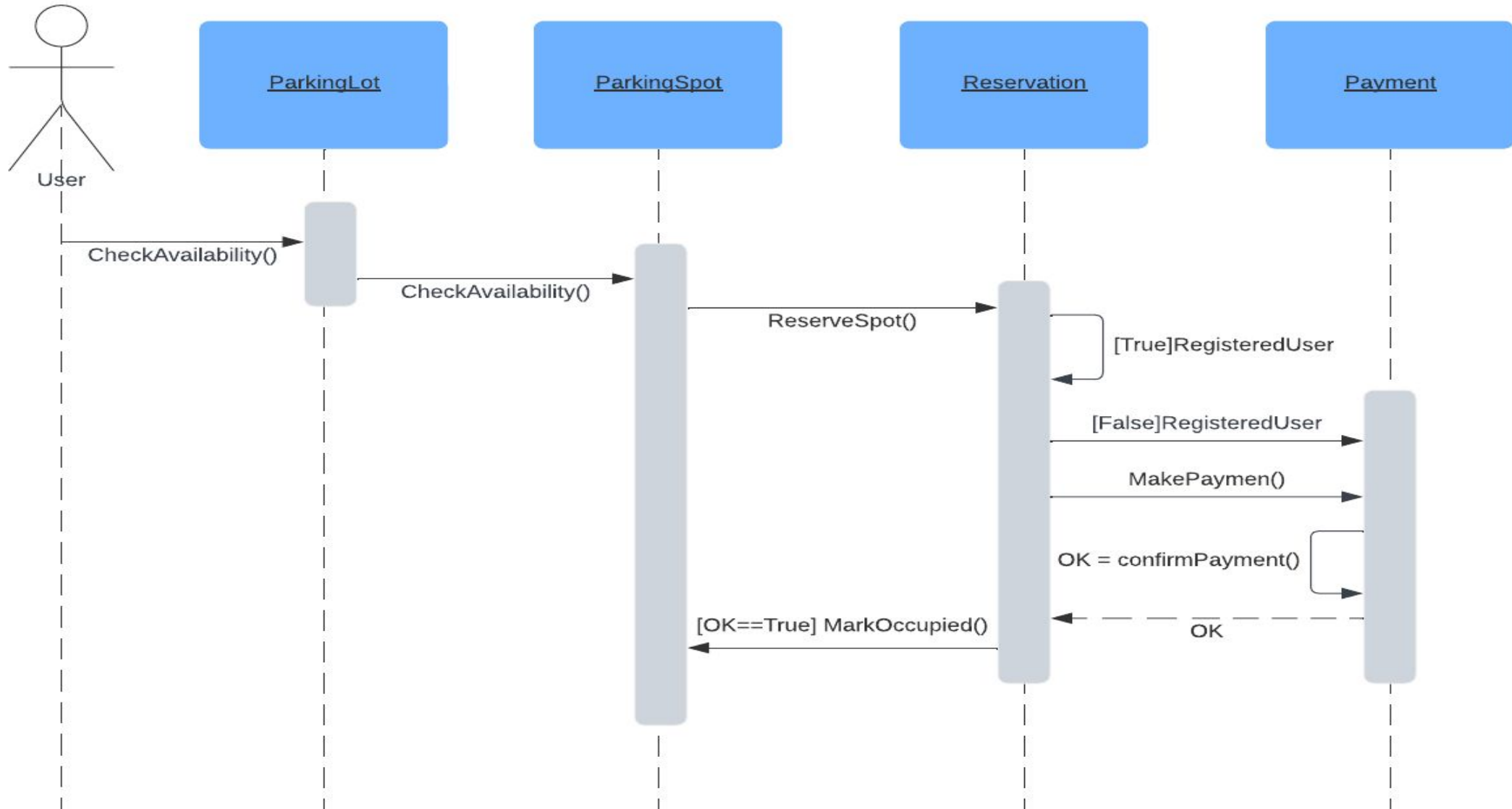
Use Case Modeling



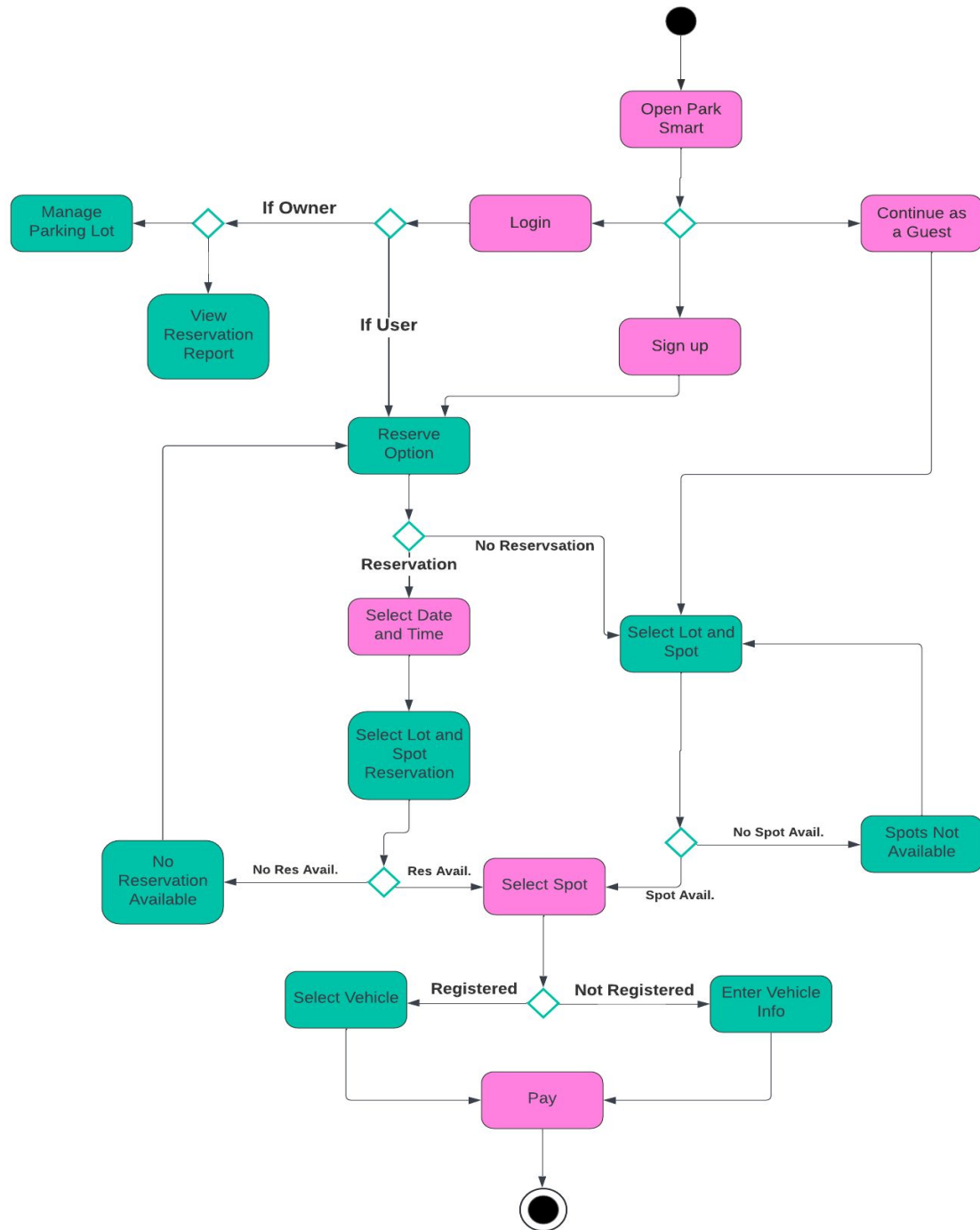
Structural Modeling: Class Diagram



Behavioral Modeling: Sequence Diagram



Behavioral Modeling: Activity Diagram



Screenshots (UI, Code, if any)



Lightning McQueen is parked in Lot A Spot 2



What Next:

- Create/Integrate databases for users and parking lot.
- Have a working frontend that shows what spots are available.
- Add functionality for guest or registered users.
- Implement admin privileges.
- Have a working backend.
- Integrate front end and back end.

