# CS 255 System Design Document

## UML Diagrams

### UML Use Case Diagram

Diagram

Description automatically generated

### UML Activity Diagrams

Diagram

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Diagram

Description automatically generated

Diagram

Description automatically generated

### UML Sequence Diagram

A picture containing timeline

Description automatically generated

### UML Class Diagram

Diagram

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## Technical Requirements

Technical Requirements are a necessity for any project. To use this system, we will need:

* To implement an online database for all users and give it the ability to communicate with services that can communicate with banks. This is to increase security for the user, as it allows the user to not enter their bank details on the application. We can still make website/in-app purchasing possible.
* To create a backend maintenance tool. This will allow higher-role members to audit the users of the system.
* Create user tests that adhere to DMV standards.
* Create roles for each tier of members of the system.
* Create a scheduling system.

This type of business will most likely see new drivers that stay a little while and leave. This can be terrible on the servers, so I would suggest renting online server space. This will allow the system to be up for the greatest amount of time and not be overloaded with too many users, as it allows extra memory to be allocated, and the ram can also be upgraded allowing the system to run faster. The bandwidth can also be upgraded.

Users also have technical requirements. They will need:

* Access to the site via an electronic source:
  + Cellular Device.
  + Personal computer.
  + Personal Tablet.
* Have a valid ID.
* Have a valid debit/credit card.