# CS 255 System Design Document

## UML Diagrams

### UML Use Case Diagram

A graph paper with hand drawn lines

Description automatically generated

### UML Activity Diagrams

### A graph paper with a diagram Description automatically generatedA diagram on a white paper Description automatically generated

### UML Sequence Diagram

A graph paper with writing on it

Description automatically generated

### UML Class Diagram

*A diagram of a building

Description automatically generated*

## Technical Requirements

**Hardware Requirements**

* There will be at least one server for the website to run on, however it may be necessary to have multiple servers for backup or other such usages.
* There will be a UI component for both administrators and customers.
* There will be a stable internet connection all the time.
* The user must have a computer with a monitor of some sort to interact with the UI.
* The user must have an internet connection and access to power.

**Software Requirements**

* The website will run on Windows or Mac.
* There will be security software for the protection of users’ data.
* The user must have access to a Windows or Mac computer or device.
* The system must handle multiple logins.
* The system must differentiate between users by some metric such as their name or address.
* The system should be constantly updated to the latest software.
* The system should require the user to call customer services to change certain parts of their information such as addresses.
* The system should have a username and password with two-factor authentication for the security of the users’ information.
* The system must allow the user to set up dates, times, and places for themselves and the instructors, track the driving time with an instructor, see previous drives, see upcoming drives, and allow the user to take online practice tests.

**Tool Requirements**

* There will be internet connection and access for server uploads.
* There will be administration tools for networking and other such over-arching tasks like monitoring for suspicious internet traffic/interactions.

**Infrastructure Requirements**

* There will be adequate cars for students and instructors to use.
* There will be insurance in accordance with the law per state.
* There will be a contract for credit card processing.