# CS 255 System Design Document

## UML Diagrams

### UML Use Case Diagram

A diagram of a diagram

Description automatically generated

### UML Activity Diagrams

A diagram of a software company

Description automatically generated

A diagram of a process

Description automatically generated

### UML Sequence Diagram

A diagram of a process

Description automatically generated

### UML Class Diagram

A diagram of a computer

Description automatically generated with medium confidence

## Technical Requirements

The infrastructure should be a cloud base server to ensure accessibility from anywhere. A cloud base server will make it easier to increase the size of the website later in the future. The cloud base server that is picked for DriverPass needs to be capable of handling reservation data, user information, training material, and updates. The system should be web based, which also allows the user to access it from any browser on any device. For tools to create the application, the best would be Java or python, using Pycharm, or Visual studio, for coding and debugging. The system also needs to be capable of real time updates from the DMV, so a code within the system should be implemented to check the DMV’s website for updates. With the system being cloud based, the cloud system that you utilize should provide the bulk of security, but the site should be able to verify, and validate users. Ways of testing the system should also be integrated with the system to test any future updates before release. DriverPass should also allow for role authentication or authorization. This can be used to assign people with permissions to edit and access different parts of the system. This could be IT, Boss, Instructor, user, and secretary.