# CS 255 System Design Document Template

## UML Diagrams

### UML Use Case Diagram

Diagram

Description automatically generated

### UML Activity Diagrams

Diagram, engineering drawing

Description automatically generated

Diagram

Description automatically generated

### UML Sequence Diagram

Diagram

Description automatically generated

### UML Class Diagram

Diagram

Description automatically generated

## Technical Requirements

This system will need a server that would most likely be cloud based computing. This would allow for the website to go live when a user logs into the webpage, saving on costs. There will also need to be software that interacts with the DMV to ensure that the latest procedures are being implemented into classes. There will also need to be a database for users that will store all user data to allow for secure login. There will also need to be encryption of user credentials to the database to ensure that data is stored securely. Another database that will be needed is for appointments. This database allows verification of classes taken as well as classes that are scheduled in the future. A third database will be for qualified drivers. This database will be for drivers that are qualified to teach the courses and will be updated as the DMV procedures are updated.