# CS 255 System Design Document Template

## UML Diagrams

### UML Use Case Diagram

A diagram of a system

Description automatically generated

### UML Activity Diagrams

A diagram of a company

Description automatically generatedA diagram of a company

Description automatically generated

### UML Sequence Diagram

*A diagram of a sequence diagram

Description automatically generated*

### UML Class Diagram

A diagram of a computer program

Description automatically generated

## Technical Requirements

The technical requirements of this system involve hardware, software, developer tools, infrastructure, and external integration. The hardware requirements will need to incorporate the use of servers to handle traffic, a dedicated data server for information collection, and devices for users to connect with. Various software requirements will include an operating system, a web server to host the application, and software used for database management. Developers will need an integrated development environment for coding and testing the new product, a program for creating diagrams, such as Lucidchart, and continuous integration/continuous deployment (CI/CD) tools for successful implementation.

Moving on to infrastructure, the client mentioned the need for cloud services, also there is security measures that need to be put in place, and the need for monitoring and logging the system. For external integration, the application needs to be able to communicate with the DMV site to download new guidance and updating the database to current regulations.