# CS 255 System Design Document Template

## UML Diagrams

### UML Use Case Diagram

A diagram of a diagram

Description automatically generated

### UML Activity Diagrams

A diagram of a company

Description automatically generated

A diagram of a flowchart

Description automatically generated

### UML Sequence Diagram

A diagram of a driver pass system

Description automatically generated

### UML Class Diagram

A diagram of a program

Description automatically generated

## Technical Requirements

**Hardware Requirements:**

* The system shall run on a reliable cloud-based platform.
* Desktop computers for employees to access and maintain user data.
* Laptops for remote access by admin.

**Software:**

* Database management system such as MySQL.
* Security system for secure communication and firewall.
* Accessible by multiple devices (desktop, laptop, mobile devices, etc…).

**Tools:**

* An IDE such as Eclipse(Java) for developing code.
* A UI/UX design tool for the front end.
* Testing tools such as JUnit.
* RESTful API for client-server interactions.

**Infrastructure:**

* Cloud-based services such as AWS or Azure.
* Dispersed architecture for scalability and security purposes.
* Notification system to alert schedule and DMV rule/regulation changes.