# CS 255 System Design Document Template

## UML Diagrams

### UML Use Case Diagram

Diagram

Description automatically generated

### UML Activity Diagrams

Here are the Activity Diagrams for the Use Cases of Student and Administrator. I have combined them into a single Diagram for simplified viewing.

Diagram, schematic

Description automatically generated

### UML Sequence Diagram

Diagram

Description automatically generated

### UML Class Diagram

Diagram

Description automatically generated

## Technical Requirements

The technical requirements for the DriverPass system are based on two facets: the DriverPass site itself, and access to the website. The DriverPass System will require a few different tools to accommodate the various features. Firstly, it will need a cloud-based server to simplify security and maintenance, as well as ensure the best chance of server stability. It will also require security protocols such as encryption through SSL. Two factor authentication is recommended. It will also need a secure payment portal to address package purchases. Additionally, access to up-to-date DMV information is needed.

The second concern is access to the website. To achieve access, the user will need both internet connection and a device capable of utilizing a web browser. This can be achieved through various devices such as a personal/portable computer or a smartphone. Additionally, steps will need to be taken to ensure the website is functional on various types of devices. Furthermore, users will need valid credentials to access the website, e.g., student, faculty, administrative.