# CS 255 System Design Document Template

## UML Diagrams

### UML Use Case Diagram

A diagram of a company

Description automatically generated

### UML Activity Diagrams

A diagram of a procedure

Description automatically generated

### UML Sequence Diagram

A diagram of a student schedule

Description automatically generated

### UML Class Diagram

A diagram of a student

Description automatically generated

## Technical Requirements

DriverPass is a smaller business but wishes to expand in the future. The best option for them is a cloud-based server. The cloud-based server will offer cost-effective scalability that will handle increased data and user traffic without much upfront investment in physical infrastructure.

All staff members should be given a work computer. These computers should run on a Windows operating system to provide compatibility with a wide variety of business applications and services. The work computers should have enough processing power, memory, and storage to perform daily tasks. A reliable internet connection is also needed for all staff members to access real-time updates on schedules, reservations, and policies submitted by the DMV.

Security is needed and can be done in a few ways. One would be to have an automated backup system to protect customer and administrative information from data loss. Regular automated backups should be stored securely and in place to restore data quickly in case of system failures. The most used and needed security would be security software, with antivirus programs and firewalls.

The DriverPass web portal must be accessible on the most widely used operating systems, including MacOS, Windows, iOS, and Android. Using cross-platform compatibility allows more customers to use and access their system. The web portal will be user-friendly to promote use and customer satisfaction.