# CS 255 System Design Document Template

Zachary Derepentigny

## UML Diagrams

### UML Use Case Diagram

Diagram

Description automatically generated

### UML Activity Diagrams

Diagram, schematic

Description automatically generated

### UML Sequence Diagram

Chart

Description automatically generated

### UML Class Diagram

Diagram

Description automatically generated

## Technical Requirements

The DriverPass system will run in a web-based environment, accessed via standard computer operating systems to allow customers to register, access their accounts, sign up for a package of their choice, schedule appointments, access their online training materials, and manage their account information. Secretary users will also have limited access to these features to assist customers who wish to register an account and schedule appointments over the phone. Payment will be handled by a standard payment system vendor using available protections for transaction and payment card information. As such, the system does not have high performance requirements. The system’s back end will store account information and user access levels which will be managed by the admin user(s). Current data from the DMV will also be communicated to the system to ensure training materials remain up to date with DMV standards. System will store transaction information such as appointment creations and cancellations, user accounts changes, failed logins, and password changes, to ensure protection from and response to errors. Alterations to the system will be handled by a development team, to include changes to offered packages, with consideration to changes at a later date. The system will feature standard security protections such as two-factor authentication, validating user credentials, and account lockout after 4 failed login attempts. Only admin user(s) and the account owner will have access to reset the password of a locked account.