# CS 255 System Design Document

**Nathan Anglin**

**CS-255-T3655 System Analysis and Design**

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## UML Diagrams

### UML Use Case Diagram

Diagram, schematic

Description automatically generated

### UML Activity DiagramsDiagram Description automatically generatedDiagram Description automatically generated

### UML Sequence Diagram

*Diagram

Description automatically generated*

### UML Class Diagram

*A diagram of a flowchart

Description automatically generated with low confidence*

## Technical Requirements

The following technical requirements show the requirements for this system.

* Interoperability – This program must be able to be used on any PC or Mobile device through browsers on those devices. All browsers, including updates within the last 5 years should be compatible with the application.
* Serviceability – Administrators for DriverPass must be able to update and edit study materials based on notifications sent by the DMV on changes in driving tests and other study materials.
* Human error – Any mistyped login information will instruct the user to re-enter their login information. If there are 5 consecutive logins with wrong information, the user will be prompted to change their password, by using their email address to recover the account.
* Internal controls – Only administrators can edit testing materials and can delete or modify permissions on user accounts.
* Authentication and authorization – The system must confirm the user’s login permissions before granting access to deeper level processes, with the highest permissions given to the company’s administrators.