# CS 255 System Design Document Template

## UML Diagrams

### UML Use Case Diagram

*A picture containing diagram

Description automatically generated*

### UML Activity Diagrams

*Login Use Case Activity Diagram:*

*Diagram

Description automatically generated*

*Purchasing a Package Use Case Diagram:*

*A screenshot of a computer

Description automatically generated with medium confidence*

### UML Sequence Diagram

*Purchase a Package Sequence Diagram:*

*Graphical user interface

Description automatically generated*

### UML Class Diagram

DriverPass Application UML Class Diagram:

Graphical user interface

Description automatically generated with low confidence

## Technical Requirements

* A cloud provider is necessary to keep backup data and deal with technical issues.
* The DriverPass team must be notified through email about DMV updates
* The system will operate through a roles and rights structure. A users login credentials will determine their role in the system. This role will then give that user the rights to access the functionalities and operations within the system that they need.
* If a user doesn’t remember their password, they should be able to automatically reset it themselves.
* The CEO or technical officer should be able to disable a package they would like to prevent further customers from purchasing.
* An activity report should keep a log of who made a reservation, who canceled one, and who made any changes. This activity report should be available for download by the CEO.
* Data within the system should be accessible online and offline. Any changes or updates can only be done while online.
* The server should keep track of user progress in the online course. This includes tests, quizzes, and lessons.
* Drivers should be able to upload notes from lessons into the system and display those notes to the specified user.