# CS 255 System Design Document Template

## UML Diagrams

### UML Use Case Diagram

A picture containing text, diagram, screenshot, line

Description automatically generated

### UML Activity Diagrams

A diagram of a flowchart

Description automatically generated with low confidence

### UML Sequence Diagram

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Description automatically generated

### UML Class Diagram

A screenshot of a diagram

Description automatically generated with low confidence

## Technical Requirements

The system should be able to allow a user to do the following while connected to the internet: create an account, purchase a package, and access respective functionality. The functionality for each tier is different, and may change, so the main 3 components will be listed here:

* + All packages include an allotted amount of time to make appointments and reservations for in person driving lessons(The main method for the idea). Remaining features can be considered perks for paying more, as they also assist the user in preparing for the driving exam.
  + Driving Information: such as laws, signage, right of way, and other useful information is supplied to the user and organized in a way that’s pleasing to read through or review.
  + Driving exams: online driving tests which recalls the users knowledge of driving and evaluates the responses to provide the user with areas in which they could improve or provide the user with a tag, signifying they would like a teacher who specializes in a certain area of driving with the same tag.

These requirements will need the proper server space as well as database access to retireive the pertinent information and relay that info back to the customer and the owner.

* + Create Use Case Diagrams and build activity diagrams for each use case. This will allow the developers to visualize the flow of the user through the system.
  + Research user-interface designs and build the main class diagram. Which UI would be most compatible with this project, and how will individual components function as part of the whole system hierarchy.
  + Get Customer approval to proceed with development and start building system. From this point, the team will work on building the interface front end and linking the database to it. After main business logic is written the system will be bug tested and ready for deployment.

DriverPass will need software solutions that include these requirement guidelines and accurately enable the system for proper development and functionality.