# CS 255 System Design Document Template

This template lays out all the different sections that you need to complete for Project Two. Each section has guidance to prompt your thinking. You will need to continually reference the interview transcript as you work to make sure that you are addressing your client’s needs. There is no required length for the final document. Instead the goal is to complete each section based on what your client’s needs are. Remove this note when you are finished, and replace all bracketed text with the relevant information.

## UML Diagrams

### UML Use Case Diagram

*Diagram, schematic

Description automatically generated*

### UML Activity Diagrams

Chart, box and whisker chart

Description automatically generated

Chart

Description automatically generated with medium confidence

### UML Sequence Diagram

*Chart, box and whisker chart

Description automatically generated*

### UML Class Diagram

Diagram

Description automatically generated

## Technical Requirements

*DriverPass would like a system designed for a cloud-based platform that can be accessible via desktop and mobile devices. We will partner with a client approved cloud vendor to handle backup and security as well as our database maintenance. Our system will need to securely access the local DMV to stay up to date on policy and rule changes and new sample questions.*

*Our interface needs to be functional for both desktop and mobile platforms giving our customers the ability to create accounts, change and reset passwords as needed, access and update their account information, and select the services desired. The system will need to validate user credentials when logging into the system. The IT Officer needs to be alerted when account changes are made and can block users as needed. Developing a functional system for both mobile and desktop devices will require more time, money, and expertise to complete the project.*

*Students will be able to take online tests that are accurate and relevant. Students and the Secretary will be able to choose packages of their choice and make reservations for in-person driving lessons and training. Any changes made to existing appointments need to be communicated to the administrator who also can disable packages due to availability. The system will need to be accessible 24/7 to serve the needs of customer base, make updates to system data in real time, and alert the admin and IT Officer to changes so they can maintain data integrity.*