# 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

A diagram of a person's diagram

AI-generated content may be incorrect.

### UML Activity Diagrams

A screenshot of a diagram

AI-generated content may be incorrect.

A screenshot of a diagram

AI-generated content may be incorrect.

### UML Sequence Diagram

*A diagram of a student

AI-generated content may be incorrect.*

### UML Class Diagram

A diagram of a system

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## Technical Requirements

*Based on the diagrams that I have created, there are several technical requirements for the DriverPass system. The DriverPass system needs to be accessible through the internet to allow students, instructors, and admin to log in from anywhere. The system will also need technical requirements to validate a user’s specific identity while being able to check their role permissions before granting access.*

*Another technical requirement is handling login requests, password resets, and secure account creation. The system should include any functionality needed for admin to add or remove accounts. This should include the ability to update account details when necessary.*

*The system must support test management which would include the ability to create, update, and remove tests or questions. It should also be able to deliver tests to students, record their answers, and automatically calculate their results. The ability to track student progress and provide reports is also required.*

*In addition, the system must allow for scheduling and managing lessons. This includes reserving lesson slots, preventing overbooking when all availability has been reserved, and assigning instructors to lessons.*

*The system should also include tools for sending notifications to students, instructors, and administrators. Integration with the DMV system is required to ensure regulations and test standards remain up to date. Finally, the system must validate user payments when purchasing packages and remove packages from availability once all slots have been claimed.*