# 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 work flow

AI-generated content may be incorrect.*

### UML Activity Diagrams

*A diagram of a process

AI-generated content may be incorrect.A diagram of a test

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 student

AI-generated content may be incorrect.*

## Technical Requirements

The Driver Pass system will be hosted on a cloud platform like AWS or Azure to allow access from any device. A cloud database like MySQL or NoSQL will store student records, lessons, and payments, with daily backups to keep data safe. The system will support secure online payments through a third-party payment processor. It will use encryption for all communications. Students can view their lesson schedules, test results, and payment history through an easy-to-use web interface. The system will include role-based access for different users and two-factor login for admins to enhance security. It will also track user activity for accountability, such as who schedules or cancels lessons. Driver Pass will connect with the DMV to automatically update test materials, ensuring students are always training with the most up-to-date information.