# 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 diagram

AI-generated content may be incorrect.

### UML Activity Diagrams

A diagram of a flowchart

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

AI-generated content may be incorrect.

### UML Sequence Diagram

A diagram of a flowchart

AI-generated content may be incorrect.

### UML Class Diagram

A diagram of a computer

AI-generated content may be incorrect.

## Technical Requirements

***Hardware Requirements***

* *Cloud-hosted environment using AWS or Azure*
* *No local hardware needed at client sites*
* *Compatible with modern desktops, tablets, and smartphones*

***Software Requirements***

* *Web application compatible with all modern browsers*
* *Frontend technologies: HTML5, CSS3, JavaScript*
* *Backend: SQL database for lesson data, user accounts, and payment records*

***Tools***

* *Lucidchart for UML diagram creation*
* *Microsoft Office or Google Docs for communication and documentation*
* *DMV API for syncing test changes and license status*

***Infrastructure***

* *Secure login and role-based access for Admin, Secretary, Instructor, and Customer*
* *Encrypted data storage*
* *Real-time syncing between the DriverPass platform and DMV*
* *Audit logging for account updates and schedule changes*