# 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 white background with black text

AI-generated content may be incorrect.

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

### UML Sequence Diagram

A diagram of a diagram

AI-generated content may be incorrect.

### UML Class Diagram

A diagram of a company

AI-generated content may be incorrect.

## Technical Requirements

The DriverPass system will run as a secure, web-based application that students, instructors, and staff can access from any device with internet. To make this possible, the system needs a few important pieces:

**Hardware**

* A main server to run the system and handle requests.
* A database server to store accounts, schedules, payments, and progress.
* Devices like laptops, tablets, or smartphones for students and staff to log in.
* Backup storage to protect data in case of issues.

**Software**

* A reliable operating system to run the servers.
* A database program to organize and store information.
* A modern web application that works with all major browsers.
* Security features like encrypted connections and user logins.

**Tools**

* Diagramming and planning tools for design.
* Develop software for building and testing the system.
* A version control system to keep track of changes as the system improves.

**Infrastructure**

* Hosting on a secure cloud platform so the system is always available.
* A login system that locks accounts after repeated failed attempts to keep accounts safe.
* Payment integration so students can buy packages online.
* Regular backups and monitoring to make sure the system are reliable and up to date.