# 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 process

AI-generated content may be incorrect.*

### UML Activity Diagrams

*Schedule Lesson*

A diagram of a system

AI-generated content may be incorrect.

Purchase Package

A diagram of a process

AI-generated content may be incorrect.

### UML Sequence Diagram

Schedule Lesson

*A diagram of a program

AI-generated content may be incorrect.*

### UML Class Diagram

DriverPass System

A diagram with arrows and text

AI-generated content may be incorrect.

## Technical Requirements

The DriverPass system requires both hardware and software components to support online scheduling, payments and user management. The system will run on secure web servers with a relational database such as MySQL to store students, instructor, lesson, package and payment data. Client-side access will be provided through a web browser interface that students and instructors can use from a desktop or mobile device.

Software requirements include a front-end built with HTML, CSS and JavaScript and a back end developed using Java or Python with an integrated RESTful API for communication between system components. A secure payment gateway, such as PayPal or Stripe, will handle financial transactions. The system should also include authentication protocols (SSL/TLS) to protect user data and email integration for automatic confirmations.