# 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 company

AI-generated content may be incorrect.

### UML Activity Diagrams

A diagram of a flowchart

AI-generated content may be incorrect.

### UML Sequence Diagram

A diagram of a software application

AI-generated content may be incorrect.

### UML Class Diagram



## Technical Requirements

*[Based on the diagrams you have created, describe the technical requirements of your system. These requirements should address the required hardware, software, tools, and infrastructure necessary for your system design.]*

The technical requirements of my system for Driver Pass is designed to support a scalable, secure, and user-friendly platform for managing driving lessons, user registration, course progress, and administrative tasks. It will need to have a good server with 8-core CPU with 16 GB RAM and 250 GB SSD storage for better performance and scalability. For mobile devices it must support modern web browsers like Chrome, Firefox, Safari, and Edge to ensure compatibility. And for the software side it must be made with standard web technologies like HTML5, CSS3, and JavaScript, with optional support from frameworks like React.js or Vue.js for a more dynamic interface. It will use a database like MySQL for storing user data, lesson schedules, car details, and course progress. And for the infrastructure it will be cloud based and will use platforms like AWS, Azure, or Google Cloud for hosting web services, databases, and file storage. And the development tools I would use are code editors like Visual Studio Code, PyCharm, or IntelliJ IDEA will be used by developers. UML diagrams and UI mockups can be created using tools like Lucidchart. I will use project management tools such as Jira to support team collaboration.