# 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 software

Description automatically generated

### UML Activity Diagrams

A screenshot of a computer

Description automatically generated

### UML Sequence Diagram

*A screenshot of a computer

Description automatically generated*

### UML Class Diagram

*A diagram of a company

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## 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.]*

*Based on the class diagram for the DriverPass system, the technical requirements include a cloud-based server setup to handle data for students, instructors, lessons, packages, and staff. The system will use a relational database like MySQL to manage complex relationships between these entities. The application will be built with a web server, using JavaScript for the front end and Python or Java for the back end.*

*Development tools such as Visual Studio Code and Git for version control will be used. The system will also require reliable cloud infrastructure, with scalable storage and regular backups to ensure data security and availability. This setup will efficiently manage all interactions and data within the DriverPass system*