# 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 relationship

Description automatically generated

### UML Activity Diagrams

A screenshot of a computer

Description automatically generatedA screenshot of a computer screen

Description automatically generated

### UML Sequence Diagram

*A screenshot of a computer

Description automatically generated*

### UML Class Diagram

A computer screen shot of a computer flowchart

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## Technical Requirements

The required technical requirements of the DriverPass System are as follows:

**Hardware:** The servers for the DriverPass system should be on a cloud-based platform that is accessible from anywhere and has sufficient room for growth, memory, storage, and more. The client’s devices must be able to access the internet and the DriverPass system must be compatible with many different operating systems.

**Software:** The software behind the DriverPass system should be run on a reliable operating system such as Linux. That is supported by a large database such as MySQL and a web server such as Apache HTTP. Finally, the system should be programmed in a sustainable and efficient language such as Java or Python and HTML using a proper development IDE such as Eclipse.

**Tools:** The necessary tools include version control systems, UML modeling techniques, testing tools, security tools, and the proper framework behind the system.

**Infrastructure:** Finally, the system will require a proper internet connection as well as backups should the system have any unexpected crashes to avoid data loss, etc. The system will also be expected to scale and handle a larger number of customers as the company expands.