# 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 driver pass application

AI-generated content may be incorrect.*

### UML Activity Diagrams

*A diagram of a password

AI-generated content may be incorrect.*

*A diagram of a software process

AI-generated content may be incorrect.*

### UML Sequence Diagram

*A diagram of a driver pass application

AI-generated content may be incorrect.*

### UML Class Diagram

*A screenshot of a computer

AI-generated content may be incorrect.*

## 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 you/r system design.]*

Since we’re working with a cloud based system, all server based hardware must be rented from a cloud service provider. To access the system, a web browser is necessary on a device that can display it, like a computer or phone. The cloud server will have all necessary components required to run the server, including the database where we would store all required data. We would write the software that the customers and employees would interact with. While not directly related to the DriverPass system, the secretaries that make the appointments for the customers will need dedicated phones to be able to talk to the customers and make said appointments to put into the system. There will be requirements of software development tools. The JetBrains IDEs would be preferrable for development, but other IDEs could be used in its place.

Overall, the system we’re designing is mostly reliant on the cloud, and is software based. The Server we’ll rent will cover a majority of the requirements to run the system. Anything else that is required can be easily acquired, like an IDE for development and computers to access the system when it is running.