# CS 255 System Design Document Template

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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

*[In Module Six, you were asked to complete a use case diagram based on your system design. If you would like to make any adjustments to your diagram, please do so. Please insert your use case diagram here. Check to make sure that you included appropriate components and symbols and that your design meets the client’s needs.]*

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### UML Activity Diagrams

*[You were asked to choose* ***two*** *use cases and create* ***two*** *activity diagrams, one for each use case. Please insert* ***both*** *of your activity diagrams here. Check to make sure that you included appropriate components and symbols and that your design meets the client’s needs.]*

**Use Case #1: Logging into the system**

Diagram

Description automatically generated

**Use Case #2: Student booking a session**

**Diagram

Description automatically generated**

### UML Sequence Diagram

*[You were asked to create a sequence diagram based on* ***one*** *of the use cases you chose. Please insert your sequence diagram here. Check to make sure that you included appropriate components and symbols and that your design meets the client’s needs.]*

**Use Case #2: Student booking a session**

*Diagram

Description automatically generated*

### UML Class Diagram

*[You were asked to create a class diagram based on the different classes and attributes needed for your system design. You are* ***not*** *required to include methods, but you may if you wish. Please insert your class diagram here. Check to make sure that you included appropriate components and symbols and that your design meets the client’s requirements.]*

Diagram

Description automatically generated

## 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.]*

As notated in the attached class diagram, every part of the system relies on the implementation of a centralized database. This database will exist within a cloud SaaS platform wherein security and backups are handled by the service provider. Therefore, the client’s requirement of a system with limited maintenance required will be fulfilled. In other words, security and backup will be handled by the cloud platform that hosts the database so the client can focus on their customers, products, and staff. Additionally, an internet browser and stable internet connectivity will be a requirement of the proposed system. Another benefit of this cloud solution is that the only local infrastructure necessary for DriverPass or its customers are computers or smart phones with internet access. Linux servers will need to be configured within the cloud environment so the system administrator must be fluent in Unix OS.