# CS 255 System Design Document

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 diagram

AI-generated content may be incorrect.*

### UML Activity Diagrams

*Create Account/ Register Diagram*

A diagram of a software system

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*Schedule Lesson Diagram*

A diagram of a software flowchart

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### UML Sequence Diagram

*A diagram of a user

AI-generated content may be incorrect.*

### UML Class Diagram

A diagram of a computer program

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## Technical Requirements

the technical requirements include a combination of hardware, software, tools, and supporting infrastructure. On the hardware side, the system will need a web server to host the application, a database server to store user, lesson, and payment data, and client devices such as computers, tablets, or smartphones for end users. The software requirements include a web development framework (Such as Java), a relational database management system (Such as MySQL), and a web browser for user access. The tools needed for development include an integrated development environment and UML modeling tools like Lucidchart for system design. In terms of infrastructure, the system requires a secure network connection with data encryption, authentication services to verify users, and a logging system to track maintenance and updates.