# 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 system

Description automatically generated

### UML Activity Diagrams

*Reset Password Use Case Diagram:  
A diagram of a computer program

Description automatically generated*

*Schedule Appointmnet Use Case Diagram:  
A diagram of a schedule

Description automatically generated*

### UML Sequence Diagram

*Sequence Diagram for Reset Password  
A diagram of a computer

Description automatically generated*

### UML Class Diagram

*Schedule Appointment Class Diagram  
A screenshot of a computer

Description automatically generated*

## Technical Requirements

Our system requires servers for hosting the application and databases for user and appointment data, with backups and failover measures for reliability. Network equipment will manage traffic and security, while user devices allow interaction with the system.

On the software front, we need an operating system for the servers, database software to store and retrieve data, web servers to deliver the application, and development tools for building and maintaining the system. Security measures including encryption and authentication protocols are essential, complemented by monitoring tools for system health and automated backup and recovery solutions for data safety.