# 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 diagram

Description automatically generated

### UML Activity Diagrams

Login/Register

A diagram of a software company

Description automatically generated

Package Purchase

A diagram of a process

Description automatically generated

### UML Sequence Diagram

*Package Purchase*

A diagram of a process flow

Description automatically generated

### UML Class Diagram

A diagram of a computer

Description automatically generated with medium confidence

## Technical Requirements

**Hardware Requirements:**

Dedicated Server

Reliable Internet connection

Adequate storage for database and website data

Computer or mobile device for user access to the website

Implementation of a firewall to safeguard website ports.

**Software Requirements:**

Utilization of Windows Server (recommended) for its stability.

Deployment of SQL Server (recommended) for the database (most stable release)

Integration of backup software for both website and database

Implementation of a web server such as Apache

Inclusion of security software to prevent malware threats.