# 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 picture containing graphical user interface

Description automatically generated

### UML Activity DiagramsA screenshot of a computer Description automatically generated with low confidence

Graphical user interface

Description automatically generated

### UML Sequence Diagram

Graphical user interface

Description automatically generated

### UML Class Diagram

## Technical Requirements

*The client would like the application to be a web (cloud) based application that can be accessible anywhere, any time. One of the key limitations is that the scheduling service and many purchasing services will not be available under any circumstances offline. However, a user’s schedule can be saved locally to their device and any personal user information that is changed offline can be asynchronously updated once they establish a connection. It is expected that there won’t be a ton of pressure put on the servers at any given time (something like a MMOG). A simple database tied back to this server can hold all the relevant data that should be presented at any given moment. Since this will be a web application, there is no need to worry about making a mobile specific application if we keep mobile in mind while developing for the web. Other than a server to host this web app and a simple, secure website there is not much else needed to make this app work. The only dependency we would need is a purchasing service that could handle online ordering and money processing. There are many trustworthy and dependable services that could fill the need.*