# 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

A diagram of a process

Description automatically generated

### UML Sequence Diagram

A diagram of a system

Description automatically generated

### UML Class Diagram

A diagram of a company

Description automatically generated

## Technical Requirements

*We are going to need scalable and reliable tools to maintain this infrastructure. We will focus on storage to maximize data capacity to maintain the high volumes of reservations and user data. Making sure to implement cross compatibility between different devices and operating platforms. Utilizing modern and industry standard frameworks, databases, and the proper APIs. Our infrastructure will be supported by cloud-based services to properly scale our system. The implementation of proper data encryption as well as regular security audits will help bolster the security of our platform.*