# 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

Diagram

Description automatically generated

### UML Activity Diagrams

Diagram

Description automatically generated

### UML Sequence Diagram

*Table

Description automatically generated*

### UML Class Diagram

*Diagram

Description automatically generated*

## Technical Requirements

This system is going to be created and managed through a cloud service leading to no need for physical servers. The software stack for the system will include React/Javascript, Python API, and a MYSQL Database. The system should also be completely web based, having a focus on running in browsers seamlessly. Data should be able to be converted to excel sheets from the database when downloading reports. Along with data conversion, HTTPS and SSL certificates will be issued throughout the life of the system to ensure a trusted website that instills safe data transferring within. For infrastructure, assigning roles to certain users will ensure that they have the correct validation to do certain things within the system. For example, the owner should be able to delete, add, edit anything within the system, as well as having access to the reports. The admins should be able to do a little less than the owner. All these roles should be tied to corresponding privileges.