# 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, engineering drawing

Description automatically generated

Diagram

Description automatically generated

### UML Sequence Diagram

Diagram, table

Description automatically generated

### UML Class Diagram

Diagram, schematic

Description automatically generated

## Technical Requirements

**Hardware**

* Cloud based web server, preferably using Ubuntu
* Database for storing user account information
* A device capable of running Chrome, Safari, Edge, or Chrome
  + PC
  + Laptop
  + Tablet
  + Phone

**Software**

* API for outside integrations
* Compatible internet browser
* Calendar service

**Tools**

* Service to process credit card payments
* User payment provider
* Development tools
  + Workstations
  + Monitors
  + Development Environment established
  + Testing Environment established
  + IDE
* Email account

**Infrastructure**

* Server Cloud
* Server/Database network
* Broadband internet or equivalent, at minimum
  + Provided by either
    - Wi-Fi
    - Ethernet through modem/access point
    - 4G/5G Cellular service