# 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

***[In Module Six, you were asked to complete a use case diagram based on your system design. If you would like to make any adjustments to your diagram, please do so. Please insert your use case diagram here. Check to make sure that you included appropriate components and symbols and that your design meets the client’s needs.]***

*A screenshot of a computer

Description automatically generated with low confidence*

### UML Activity Diagrams

***[You were asked to choose two use cases and create two activity diagrams, one for each use case. Please insert both of your activity diagrams here. Check to make sure that you included appropriate components and symbols and that your design meets the client’s needs.]***

*A picture containing screenshot, diagram, line, plot

Description automatically generated A picture containing diagram, text, screenshot

Description automatically generated*

### UML Sequence Diagram

***[You were asked to create a sequence diagram based on one of the use cases you chose. Please insert your sequence diagram here. Check to make sure that you included appropriate components and symbols and that your design meets the client’s needs.]***

A picture containing text, screenshot, diagram, parallel

Description automatically generated

### UML Class Diagram

***[You were asked to create a class diagram based on the different classes and attributes needed for your system design. You are not required to include methods, but you may if you wish. Please insert your class diagram here. Check to make sure that you included appropriate components and symbols and that your design meets the client’s requirements.]***

A picture containing diagram, plan, line, technical drawing

Description automatically generated

## Technical Requirements

***[Based on the diagrams you have created, describe the technical requirements of your system. These requirements should address the required hardware, software, tools, and infrastructure necessary for your system design.]***

*Hardware requirements will be things like servers, databases, routers, servers, switches, and any other networking equipment. We will also need devices to access the system like computers, phones, etc. The software requirements will be the web server, software development tools, operating systems, and database management systems. For infrastructure we will need a cloud infrastructure for our system to run along with numerous security measures to keep data safe. The system should also have processes for load balancing, caching mechanisms, and a system to monitor and test the performance of the system.*