# 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 computer screen shot of a diagram

Description automatically generated*

### UML Activity Diagrams

A screenshot of a diagram

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*A screenshot of a diagram

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### UML Sequence Diagram

*A diagram of a process

Description automatically generated*

### UML Class Diagram

*A diagram of a company

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## Technical Requirements

For the technical requirements of the system, we are looking at needing quite a few components. Ian specifically mentioned this needs to be stored and accessed in the cloud, so cloud-based hosting is a huge requirement. This system would also benefit from using something like AWS for storing all data. Building the website using Angular would be a great way to go considering its use of TypeScript and the data types that we’ll end up using. For the client side of hardware, the system will be both mobile and desktop compatible. Web browsers and internet would also be required to access the system. With our system being built to accept payments directly SSL encryption will be very important for protecting our clients’ financial information. Role-based access control will be used so that only users with high enough access can access the system behind the scenes and more sensitive information. This system will be updated pretty regularly to ensure we keep up with the rapidly increasing technology so a version control system will be necessary, Git is widely used, and the development team should already be familiar with it.