# 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

Graphical user interface, application

Description automatically generated

### UML Sequence Diagram

Diagram

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### UML Class Diagram

Diagram

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## Technical Requirements

The hardware required for the system includes a cloud-based server and client devices with a modern browser. The client specifically requested a cloud-based server and a system that can be run on many devices. As for the software, we will likely need a Windows operating system for smoother cloud services and security software to protect information for both the client and end user. The client also requires that the system be a web-based application.

The tools needed for system development include a desktop computer or laptop that has software development capabilities and secure internet access for server uploads. Once these tools are acquired, the infrastructure that will be required will include a cloud provider for the system, adequate power, and internet connection to keep the system running, and a contract with a credit card processor. The client will also need an actual building, parking spaces, and vehicles to facilitate the driving package portion of the system.