# 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 screenshot of a computer screen

Description automatically generated

### UML Activity Diagrams

A diagram of a customer login

Description automatically generated

A diagram of a software project

Description automatically generated

### UML Sequence Diagram

A diagram of a diagram

Description automatically generated

### UML Class Diagram

A diagram of a computer

Description automatically generated with medium confidence

## Technical Requirements

***Hardware Requirements:***

* *Cloud-based servers for data storage and processing.*
* *User devices (computers, tablets, smartphones) with internet access.*

***Software Requirements:***

* *Web-based application hosted on the cloud.*
* *Database Management System (e.g., MySQL).*
* *Programming languages/frameworks (e.g., Python, JavaScript, React).*

***Tools and Infrastructure:***

* *CASE tools for design (e.g., Lucidchart).*
* *Hosting on cloud platforms (e.g., AWS).*
* *Security measures, including SSL certificates and role-based access controls.*
* *Integration with DMV systems via APIs.*