# 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 picture containing diagram, circle, line, screenshot

Description automatically generated

### UML Activity Diagrams

*A diagram of a user login activity

Description automatically generated with low confidence*

*A picture containing diagram, sketch, plan, technical drawing

Description automatically generated*

### UML Sequence Diagram

A diagram of a person

Description automatically generated with low confidence

### UML Class Diagram

A picture containing text, diagram, receipt, plan

Description automatically generated

## Technical Requirements

Python, a powerful programming language renowned for its scalability and versatility, has been used to create the DriverPass system, a widely accessible web-based service. It will be made available through a dependable cloud-based hosting provider, which will also act as the main platform for the server code, the core Python code, and the database of user login credentials and other important system data. With this strategy, the system will be constantly available, incredibly responsive, and able to handle the enormous quantity of data that it will produce. By utilizing Python, the developers will be able to build a system that is simple to maintain, upgrade, and extremely configurable to suit the evolving demands of the users. The system may be accessible from anywhere, at any time, by anybody with an internet connection by using a cloud-based hosting provider, which will also assist to reduce the cost and complexity of hosting and maintaining the system. Overall, the technological foundation of the DriverPass system has been created to offer consumers an effective and smooth experience while assuring the security and safety of their sensitive data.