# 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 diagram of a person's life cycle

Description automatically generated

### UML Activity Diagrams

1. User Lesson Registration

A diagram of a software program

Description automatically generated

1. Admin View Registration Changes Report

A diagram of a schedule

Description automatically generated

### UML Sequence Diagram

User Lesson Registration Sequence Diagram

A diagram of a display

Description automatically generated

### UML Class Diagram

A diagram of a computer program

Description automatically generated

## Technical Requirements

The DriverPass application will need be hosted in a web server. It is recommended that for simplicity in maintenance that a cloud hosting providers is used, such as AWS. Additionally, there will need to be serverless services running to execute many of the small operations in the application. This will reduce the overhead of having to host your own infrastructure as well as keeping costs down with the relatively cheap price of running small invocations of serverless services that do not require a plethora of memory.

A database will also be needed to retain object details and facilitate a historic view required by DriverPass employees to monitor changes in accounts such as password updates, changes in reservations for lessons, and testing results. Payment technology is intentionally left out due to it not being broached in the requirements meeting, this will be an outsourced component of the system that will need to be integrated before the application is fully operationalized.