# 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

**DriverPass Use Case Diagram**

A diagram of a diagram

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### UML Activity Diagrams

### A diagram of a company Description automatically generated with medium confidenceDriving Lesson Activity Diagram

### Data Management Activity DiagramA diagram of a company Description automatically generated

### UML Sequence Diagram

**Customer Lesson Sequence Diagram**

A diagram of a process

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### UML Class Diagram

**DriverPass Class Diagram**

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## Technical Requirements

Based on these diagrams for the DriverPass platform, the technical requirements are as follows:

1. Hardware
   1. Servers for hosting
   2. Workstations for employees
   3. Mobile devices for instructors
2. Software
   1. Database management system for user data, package and lesson details, and financial/customer reports.
   2. Server software for hosting the online platform.
   3. Development tools for building and maintaining the platform.
3. Tools
   1. UML tools, such as Lucidchart for maintaining and updating system diagrams.
   2. Project management tools for tracking development progress and adding features.
   3. Analytics tools for generating reports and tracking system usage.
4. Infrastructure
   1. Robust network infrastructure for internet access.
   2. Security infrastructure for firewalls and data encryption
   3. Backup systems for data redundancy and recovery.

These requirements ensure that the DriverPass system is well equipped for any challenges or future updates needed by the system, or the owner. This ensures that the platform will run smoothly, effectively and be intuitive for all involved with the system, employees, or customers. These requirements also ensure that the platform has the necessary resources for all operations the system is required to execute.