# 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

*DriverPass Login Activity Diagram:*

*Graphical user interface, application

Description automatically generated*

*DriverPass Package Selection Diagram:*

Diagram

Description automatically generated

### UML Sequence Diagram

*DriverPass schedule appointment diagram:*

*Diagram

Description automatically generated*

### UML Class Diagram

*Diagram, schematic

Description automatically generated*

## Technical Requirements

* Hardware requirements
  + Desktop/laptop computers for all users.
  + The system must exist on a physical server.
  + Internet service provider modem or other access to internet.
  + Backup servers in multiple locations.
* Software requirements
  + Host should use cloud service such as AWS or Azure for hosting the system.
  + Host needs access to front-end and back-end of system via an internet browser.
  + Host must be using Windows, MacOS, or Linus to access browser.
  + Users must also use Windows, MacOS, Linux, or any other operating system with browser that can access DriverPass website.
  + Developers must use proper IDE’s for system development.
  + Payment processing software.
  + Email, video conferencing, and VoIP phone service for employees and development team.
  + Standard office suite such as Microsoft Office or Google Workspace.
* Tool Requirements
  + Developers must have access to computers with capabilities for development.
  + A good internet connection is needed by all parties involved in the system.
  + Network and server administration tools to manage all aspects of network are needed by host.
* Infrastructure Requirements
  + Server location
  + Adequate internet service for traffic demands.
  + Payroll processing.
  + Office location for on-site collaboration.
  + Computers for every developer and employee.
  + Users will also require their own computers.