

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

[In Module Six, you were asked to complete a use case diagram based on your system design. If you would like to make any adjustments to your diagram, please do so. Please insert your use case diagram here. Check to make sure that you included appropriate components and symbols and that your design meets the client's needs.]

UML Activity Diagrams

*[You were asked to choose **two** use cases and create **two** activity diagrams, one for each use case. Please insert **both** of your activity diagrams here. Check to make sure that you included appropriate components and symbols and that your design meets the client's needs.]*

UML Sequence Diagram

*[You were asked to create a sequence diagram based on **one** of the use cases you chose. Please insert your sequence diagram here. Check to make sure that you included appropriate components and symbols and that your design meets the client's needs.]*

UML Class Diagram

*[You were asked to create a class diagram based on the different classes and attributes needed for your system design. You are **not** required to include methods, but you may if you wish. Please insert your class diagram here. Check to make sure that you included appropriate components and symbols and that your design meets the client's requirements.]*

Technical Requirements

The DriverPass system requires basic hardware like computers or smartphones for customers, instructors, and administrators to access the system. It will be hosted on cloud-based servers, so users just need an internet connection to use it. The system will run on commonly used operating systems like Windows, macOS, iOS, and Android. To manage data, a reliable database will store information like user details and appointments. Developers will use tools like Lucidchart for planning and an Integrated Development Environment (IDE) like Visual Studio Code to build the system. For security, the system will have role-based access to ensure that users only see what they're allowed to, along with two-factor authentication and encryption to keep data safe. A secure payment system will also be included to handle transactions properly. Overall, it's designed to be easy to use and secure for everyone.