# 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.]*

A diagram of a company

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### 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.]*

A diagram of a software process

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### 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.]*

A diagram of a test

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### 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.]*

*A diagram of a company

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## Technical Requirements

*[Based on the diagrams you have created, describe the technical requirements of your system. These requirements should address the required hardware, software, tools, and infrastructure necessary for your system design.]*

* The system shall authenticate and authorize every user with the appropriate role.
* The system shall run on both mobile devices and computers with access to the same accounts and servers.
* The system shall run online and offline, while uploading data to the cloud server when online, and storing locally when offline.
* The system shall deny appointments being made when company is closed, and when there are no cars or drivers available.
* The system shall stay up to date with current DMV compliance and policies.
* The system shall have a load time of 2 seconds or less for each page or menu entered.
* The system shall be scalable and able to withstand a an influx of users.
* The system will allow only the user to see their own PPI as well as secretary or admin roles to see PPI in the customer database.
* The system shall communicate new appointments with secretary/administrator as well as the driver that is attached to the appointment.