# 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

[Use Case Diagram.pdf](https://drive.google.com/file/d/12OrZ5RB0IQ7HzNgX-quCm2Do2M3sJBzb/view?usp=drive_link)

### UML Activity Diagrams

[AppointmentSchedule.pdf](https://drive.google.com/file/d/160PT8cG1dXUvEjNxB3O8nbZV1fV6oSq0/view?usp=sharing)

[PackagePurchase.pdf](https://drive.google.com/file/d/1zs_VDPZJc4LUauEZG_GDNUi4pnk9LFyS/view?usp=sharing)

### UML Sequence Diagram

[AppointmentSequence.pdf](https://drive.google.com/file/d/1uA5bSqORHquSQNqwA_9xtcZZxXni4osl/view?usp=sharing)

### UML Class Diagram

[UML class.pdf](https://drive.google.com/file/d/1OTxSwMekQ_V6dhhxHHhFcz0BJb3dnZU_/view?usp=sharing)

## Technical Requirements

The system will use cloud storage, as per the user requirements, so much of the hardware on site will be used for access, and not so much for storage or security. Computers for administrative, secretary, and IT support access will be necessary, each operating on the Windows 11 OS for maximum security, length of use, and variability. Since the client has made clear their wish to leave security measures up to external sources, an API to handle financial transactions will also be necessary. Another API will also be useful in ensuring information from the DMV’s system is communicated to the DriverPass software efficiently. The company should also use an API to ensure the site is compatible with macOS, iOS, and Android. I would also recommend using an ethernet connection, rather than wifi, for the administrative and secretary computers, as the business already possesses a brick-and-mortar establishment, meaning the computers will not likely need to move often, and the connection with the system will be more stable. The IT Support computer should support WiFi and ethernet access, giving the IT Technician the ability to resolve issues within the system from the office, or from home, if the issue occurs outside of office hours.