# 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

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### UML Activity Diagrams

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### UML Sequence Diagram

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### UML Class Diagram

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## Technical Requirements

The technical requirements for this system are needed to keep the system running with as little maintenance as possible. The first requirement is that this system needs to be cloud-based. This is needed so that people can access the system from no matter their location.

The owner would like to be able to download documents and reports, so this system would need to be able create the reports that the owner would like to view. If the owner would like his cloud-based access to view these documents, the system would also need to have a spreadsheet program, like Excel, and document program, like Word, so they can be viewed from anywhere.

This system needs to allow access to the IT officer to enable and disable packages as needed. The officer will also need to be able to modify the system as needed for maintenance. Also, employees need to be able to access a customer’s appointments to add, modify, or cancel as requested by the customer.

The system will be web-based, so it must have access to the internet. Since it is web-based, we need to make sure the system runs properly on all major web browsers.

For Security, we should not keep the actual password on file, but instead a hash of the password. If a user enters a password incorrectly multiple times, then they will be requested to answer a security question and change their password. Also, for security, we will have a logger of all changes made to each customer appointment. So, we can keep track of who adjusts an appointment, if there is an issue.

The system should pair a customer with a driver. It must also make sure that a driver cannot be overbooked for lessons.

If we do not want to keep customer credit card information on file, then we must provide access to an outside credit vendor, like PayPal.

If we are working with corporate infrastructure, we need to make sure that each person has a way to access the program, preferably by a company leased PC, with appropriate peripherals. This will give each person the ability to be the most efficient. At the office, we must also have access to the internet, so each team member can work from the office.