# 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

A close up of text on a white background

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### UML Activity Diagrams

1. Picking a Driver Pass Package:

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1. Scheduling a driver pass appointment

A screenshot of text

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### UML Sequence Diagram

1. *Sequence Diagram For selecting a package:*

*A close up of a map

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### UML Class Diagram

*1.*

A screenshot of a cell phone

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## Technical Requirements

*Determining technical requirements for the driver pass system first start with deciding where the system will be accessed by the intended users. Since the system is going to require users to be able create/login to an account, select driver pass training packages, schedule appointments and track progress it will be best suited for a web-based app. The client also gave us a layout of how they would like the system to look, and that they want minimal technical duties to fall on them. The system should be windows server based, and only accessible via a web browser (chrome, firefox, edge, etc.). The site will be compatible with mobile browsers as well since the client wants the app to be cross platform in terms of accessibility.*

*For hardware & storage, the web-based app will run with cloud services to prevent the client from having to worry about finding a location to house servers, and also run updates for their app. Cloud based will allow the client to focus on growing their business. Running in the cloud and being web-based will also eliminate the dependence on user hardware for buffer times, and storage of information. However, since the app will be web based this can cause limitations for errors on the client side depending on which hardware they are using if the mobile phone for example is not capable of loading the content of the site.*

*In order for the system to maintain accurate information it will need to be in compliance with state driving laws and code of conduct for training materials and quality standards. Software updates should be monthly and be run after 2 AM PST where traffic will be minimal and reduce customer impact. Since the app will be cloud based the site functionality of services like packages, processing payments, etc., will be supported by the cloud provider and will require monitoring by the admin to report outages. Security measures that will be used will be multifactor authentication, allowing the user to reset their password after 3 attempts, hiding information such as user attributes. Encryption methods for store personal information like credit cards, license information, and testing information.*