# CS 255 Business Requirements Document Template

Complete this template by replacing the bracketed text with the relevant information.

This template lays out all the different sections that you need to complete for Project One. Each section has guiding questions to prompt your thinking. These questions are meant to guide your initial responses to each area. You are encouraged to go beyond these questions using what you have learned in your readings. 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 your client’s needs.

**Tip:** You should respond in a bulleted list for each section. This will make your thoughts easier to reference when you move into the design phase for Project Two. One starter bullet has been provided for you in each section, but you will need to add more.

## System Components and Design

### Purpose

*What is the purpose of this project? Who is the client and what do they want their system to be able to do?*

* The purpose of this project is to create a driver training website for our client DriverPass. This application should be cloud based and easily accessible by all computers or mobile devices. This application will allow people to connect and take tests that are based off the latest DMV policies and rules. Furthermore, this application will also feature in-person training for the clients customers as well as full control of the application by the client in case any changes to accounts or more need to be made.

### System Background

*What does DriverPass want the system to do? What is the problem they want to fix? What are the different components needed for this system?*

* The client wants full control over their system so they can offer the best experience to their customers. In addition, they want the app accessible by all so it should be cloud based. The client wants the customer to have the ability to update appointments in real time as well as be notified when changes are made. The client also wants the system to offer multiple packages for in-person driver training as well as to set up pick-up and drop-off locations for that option.

### Objectives and Goals

*What should this system be able to do when it is completed? What measurable tasks need to be included in the system design to achieve this?*

* When the system is completed, the client will be able to access the info of all users, offer multiple training packages for customers to choose from, Show and track progress of completed tests and tests that still need to be done, stay up to date with the latest DMV rules and policies. This app will provide the clients customers with the one stop spot for driver training.

## Requirements

### Nonfunctional Requirements

*In this section, you will detail the different nonfunctional requirements for the DriverPass system. You will need to think about the different things that the system needs to function properly.*

#### Performance Requirements

*What environments (web-based, application, etc.) does this system need to run in? How fast should the system run? How often should the system be updated?*

* [**This system needs to be a web-based application that is accessible by all platforms. Furthermore, this system needs to run fast and efficiently. Users need the system to respond asap to commands. Lastly, this system will need routine update to remain up to date and current in its information and test’s**]

#### Platform Constraints

*What platforms (Windows, Unix, etc.) should the system run on? Does the back end require any tools, such as a database, to support this application?*

* [**The system should be online based, so it is accessible by all platforms. This will allow for the max number of customers. Furthermore, the back end requires a cloud-based data platform so the data can be updated in real time as well as be accessible to every user.**]

#### Accuracy and Precision

*How will you distinguish between different users?* *Is the input case-sensitive? When should the system inform the admin of a problem?*

* [**Each user will have their own username and credentials. The username and passwords will be case sensitive so each user’s account will be secure and tailored to them. Lastly, the system should inform about repeated attempts to access an account with incorrect credentials.**]

#### Adaptability

*Can you make changes to the user (add/remove/modify) without changing code? How will the system adapt to platform updates? What type of access does the IT admin need?*

* [The IT admin will have full access to the application. This is in case a customer forgets their password or updates need to be made. The admin must be able to keep the site up to date with new practice exams, DMV information and handbooks, as well as reset a customer’s password if they forget it and lose access to their account.]

#### Security

*What is required for the user to log in? How can you secure the connection or the data exchange between the client and the server? What should happen to the account if there is a “brute force” hacking attempt? What happens if the user forgets their password?*

* [The user will be required to enter their username and password to access their account. The connection between the client and server will encrypt while the credentials are being authenticated. Furthermore, if the account is attacked by a Brute force hacking attempt it will lock the account and notify the client and IT admin about the incident so actions can be taken to recover the account to the proper user. Lastly, if the user forgets their password, they will have the option to reset through the IT admin.]

### Functional Requirements

*Using the information from the scenario, think about the different functions the system needs to provide. Each of your bullets should start with “The system shall . . .” For example, one functional requirement might be, “The system shall validate user credentials when logging in.”*

* User login
* Verify login.
* Allow access or show error message.
* Option to view online classes.
* Option to view practice tests.
* Option to view in person training.
* The IT admin needs to update all information.
* The IT admin need to be able to modify accounts.

### User Interface

*What are the needs of the interface? Who are the different users for this interface? What will each user need to be able to do through the interface? How will the user interact with the interface (mobile, browser, etc.)?*

* [The interface needs to allow access to all the functionalities of the application. It needs options for login/logout, practice tests, driver information, and in person training. Clients will need to access the aforementioned options whereas its admin will need options to update content and manage accounts. Lastly, each user will need to be able to access their account on mobile and web-based browser.]

### Assumptions

*What things were not specifically addressed in your design above? What assumptions are you making in your design about the users or the technology they have?*

* [The aspects that are not specifically addressed are the type of encryption or authentication that will be used. Furthermore, the main assumption I’m making about the users is that they will be from all platforms. This is an assumption because I have no way of knowing what users will access this app in the end.]

### Limitations

*Any system you build will naturally have limitations. What limitations do you see in your system design? What limitations do you have as far as resources, time, budget, or technology?*

* [The main limitations I see in this application is time. From the schedule in the interview the team only has four months to implement this system.

### Gantt Chart

*Please include a screenshot of the GANTT chart that you created with Lucidchart. Be sure to check that it meets the plan described by the characters in the interview.*

A screenshot of a computer

Description automatically generated[]