# 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?*

* Our client for this project is DriverPass. They are wanting to create a system to help drivers pass there driving test after noticing that there wasn’t a lot of solutions in the market to do so.
* They want us to help them create a website that will act as a form for users to book appointments, track the status of there appointments, complete practice tests, and see a history of there scores.

### 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?*

* For the system DriverPass had certain requirements they wanted. They want the ability to add, remove, and hide packages available to be purchased. They also want the ability for the user to book appointments and create an account to see the test history and practice tests
* This system would need to be able to track all the reservations made, cancellations and any modifications with a log being available.
* The system will be online based to ensure the integrity of the data, but they want the ability for certain people to be able to download it and edit it and upload that new data later.
* The system will also need security to validate the login details as well as reset options for the user.

### 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?*

* It should be a fully functioning application that allows the user to place an order, set an appointment, cancel an appointment, login to their account or create one and see the status of the tests they completed.
* It should allow them to do practice tests as well
* It should limit what each employee has access to base on their assigned roles while allowing the it admin to change the roles and set them.

## 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?*

* The application should be web based where the user is accessing the site and data online saving all the data to the server to ensure the accuracy of it
* It should be fast enough that users on older devices can access it without any issue on older devices or at the bare minimal connection speed we set.
* If we are to update the system at any time it should be updated immediately and synced across the clients because of it running off one instance.

#### 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 platform should run on IOS, Android, Windows, MacOS, and linux. Since it is based on an online platform we just need to create the application that calls to the online application.
* The back end does require a cloud system to manage all data saved as well as a security manage system for roles of users and administrators.

#### 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?*

* The way we will distinguish between users is using the username and password for the user when they are accessing the website. This will be case system and the user will be able to reset the login details on the website if they are having issues logging in.
* The system will inform the admin immediately if a password reset is requested for users in certain admin positions, a user submits a request regarding accounts being compromised, and if the website isn’t working properly.

#### 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?*

* You will be able to make changes to the user without having to change any part of the code. The admin will be able to change roles, the user will be able to request a password reset and a new user can create a account.
* The system will adapt to platform changes by showing the user new features being added. It will also be able to be updated quickly so the user can explore those changes.
* The it team will have admin access to reset login details, remove users or past employees, add users accounts, and set permissions for other roles.

#### 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?*

* When we look at security the user will need a username and a password to login and access the account.
* The system will ask the user to reset their password after 3 attempts locking the account and sending the reset details to the email on file to ensure that the user is aware of the missed attempts in case it was an attempt of unauthorized access.
* The cloud will exchange the data between the user and the server to ensure that the data is all accurate for everyone as well as ensure the security of the data by not allowing it to be modified in an offline state.

### 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.”*

* When looking at the functional requirements some of them that I have is that it will validate the user login credentials.
* Be fast and efficient to run and access the web app.
* Create a log of changes
* Provide access to different systems based on the account so admin and other users can login and complete edits
* Show the user who their driver is
* Show the reservations made by the user or secretary for the user
* Show dmv requirements, practice tests, and classes

### 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 will need to allow the user to login to their account. The user will need to be able to access the reservation and make changes on the appointment as well as take classes or tests on their account
* It will also need to allow DriverPass employees to login and access the system as needed.
* We will also need to allow the user to interact with the interface from a variety of devices and screen sizes like a phone, laptop, desktop and more.

### 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?*

* We are assuming that the user has an internet connection and a fast enough connection to access the site.
* We are assuming we have access to all the options needed
* We are also assuming that the solution is in budget and can create the system for different platforms.

### 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?*

* One of the major limitations is the need for online access.
* The other limitation would be our time limit for this
* The last limitation would be resources ensuring we have enough employees to create the website and make sure its accessible across a lot of devices.

### Gantt Chart

