# 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 an online system for the client DriverPass that can be used by its customers who are having trouble passing their driving tests.

### 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?*

* Driver Pass wants so solve the problem of people not passing their driving tests by offering a study materials and driver training to kits customers.
* The system needs to be able to allow users to access practice tests online using any platform.
* Allow users to make and cancel appointments
* It needs to have database with customer info.
* It needs to have an administrator backend so admin can enter, change or update customer information and system maintenance
* It needs to have a way to accept payments from customers.

### 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?*

* The owner wants the system to be available from anywhere.
* The owner wants to have complete control over accounts so he can change or modify user accounts when needed as well as reset passwords.
* The system needs to have a tracking system so the owner can track who is accessing the system. He needs to be able to see who is making reservations and canceling them.
* They need to be able to identify drivers, customers, cars and which cars are matched up with which customers. the customers need to be able to pick a time and day for there appointment.
* It needs to have security to keep the company data safe as well as the customers.
* They need to be able to change and disable packages.
* The system needs to be able to stay updated to be Shure its in compliance with the dmv.

## 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 system should be completely web based and storage should be done on cloud.
* The system should be fast enough to run on all platforms.
* The system should be updated often or when needed.

#### 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 able to run on any platform as well as mobile devices.
* The system should be able to run on all web browsers.
* There would need to be a backend where system logs and user information are stored

#### 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 system will distinguish between users by using stored user roles and secure user password storage.
* The inputs will be case sensitive.
* Admin should be informed of a problem by the system whenever there is a login error or tree login attempts.

#### 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 system should be able to accommodate future changes and updates
* System admin should be able to make changes to user accounts without the need for additional coding.
* The systems IT should have admin access to the system for updating modifying and testing the system.

#### 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?*

* To log in the user must enter a case sensitive password.
* The system could implement email or phone verification.
* The system needs to include a way for users to rest their password using email verification.
* The system needs to block login after to many failed attempts.

### 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.”*

* The system shall be able validate the usernames and passwords of users who log in.
* The system shall know whether a user or admin is logging in.
* The system shall include a way for verified users to reset their password if forgotten.
* The system shall allow new users to set up an account.
* The system shall be accessible anytime from anywhere via the internet.
* The system shall notify admin and lock an account if to many failed login attempts are detected.
* The system shall display all available packages and allow users to select the package they want.
* The system shall display appointment information (which driver is in which car and with which customer as well as appointment times.
* The system shall connect with dmv regularly to check and download updates.

### 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 be neat and easy to navigate.
* The interface needs a link for logging in or registering a new account.
* The interface should have a link to view test progress and results.
* The interface should have a home button.
* The interface should have a link to update user info.
* The interface should have a link for package information
* The interface needs to have a link to other learning tools.
* Admin should have a link to the info about users and their accounts
* Admin should have a link allowing them to add or disable packages.
* Admin should be able to see which customers/ drivers and times and dates of lessons.

### 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?*

* Users will have access to internet 24/7
* Users will have a device able to connect to the site.
* Users will have basic understanding of how to use the system.

### 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?*

* Will we be able to finish the project within the timeframe.
* Will the project stay within the client's budget.
* Will the clients IT be able to handle unexpected problems with the 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.*

