# 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 for DriverPass, our client, to help them provide more efficient and accessible drive training.
* The client is DriverPass and they would like their system to better prepare customers for their driving test by offering classes. These classes would prepare the client before their DMV driving test.

### 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?*

* DriverPass wants their system to help customers better prepare and feel more confident before their DMV driving test.
* The problem that they want to fix is that a measurable amount of DMV driving students are not passing their tests due to lack of proper training. They would like to fix this by giving customers access to practice through their company.
* The different components needed for this system are an online database that records driver’s license, photo, and progress.

### 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?*

* This system should be able to allow the customers to create an account, including their name, address, phone number, password (password reset) and payment information. It will also track the customers pick up and drop off location. The system should also be able to schedule appointments online, ability to choose a package. Other functions the system should allow are which driver and instructor are matched, in what car and what time. Lastly, the system should be able to show and record reservations, allow the system to be updated with new DMV information, show the customer’s their progress and notes from their instructors.

## 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 run a web-based cloud environment with a speed of one to two seconds. The system should be updated once a month or as 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 run on mobile browser and desktops, this includes internet explorer, safari and google chrome. The system will require a backend database to store user data and a backend web server to manage and process requests.

#### 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 different users by the login, unique to everyone, also different login areas for students and employees. The input will be case-sensitive. The system should inform the admin of a problem daily.

#### 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?*

* Any changes that will happen will be performed through the back end and will not affect the code. The system will adapt to platform updates smoothly, without any problems. The IT admin will need access to the database and web server.

#### 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?*

* For a user to login, a unique password is needed. The connection can be secured by two factor authentication. If there is a “brute force” the account will be locked after five attempts. If the password is forgotten, the customer can click the “forgot password” button and it will let admin know so the user can reset their password.

### 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.”*

* System should validate username and password
* System will be able to tell if it is a customer or employee logging in
* System allows password resets
* System will block and tell admin if five attempts to login fail
* System will let user create an account
* Allows access to system from anywhere
* Displays all package options
* Ability to select a package
* Allow admin to disable full packages
* Track drivers with their car, instructor and time
* Update system with DMV updates
* Show client progress
* Show instructor notes
* Show when the lessen starts and ends
* Show customers/instructor photos

### 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.)?*

* Customers will be able to:
  + Login/Register
  + Home
  + Progress
  + Customer information
  + Instructor notes
  + Packages options
  + Contact information

Admin will be able to:

See information of registered customer

Number of packages booked and by which customer

Able to remove full packages

See the instructor and client pairings

Give customers access to reset their passwords

### 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?*

* Assuming that all customers know how to work/navigate a website
* Assuming that everyone has access to a computer or mobile 24/7
* Assuming that the employees are knowledgeable about website functions
* Assuming that all clients and instructor lessons will start on time
* Assuming that all lessons will be attended without any absentees

### 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?*

* Maintenance of all ten cars and kept in usable condition
* Internet delay issues
* Number of customers for each package are limited to amount of cars
* Limited car experience from customers

### 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 gantt chart

Description automatically generated*