# 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 new client is DriverPass. They want to offer better driver training because many people fail their driving test. They are wanting a system that allows their customers to take online class, practice test, and make reservations. They would like to offer different packages that their client can choose from.

### 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 system will be able to track any changes made by a user and be able to see which driver is assigned to which customer. If something goes wrong, the owner can see who made what changes.
* The system will grant a certain amount of access for specific users. If someone leaves the company, they can block their access.
* The system will offer different packages that can be removed by a user.
* The system will be connected to the DMV for any updates.
* The system will run over the cloud so the system can run off the web.

### 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?*

* Allow the customer to select a package
* Allow a user to remove a package
* Make reservations
* Access to online classes and practice test
* Display online test progress, driver notes, contact information, and the driver assigned to the customer
* Receive notifications when there is a DMV update

## 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 will run over the cloud. The time it takes to connect to the system, retrieve the information, and display it to the user should not exceed 5 seconds. The system should update daily.

#### 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 Windows. A database tool will be used for file storage, data encryption and security connections. The system will use a framework and programming language tool for functionality.

#### 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 have unique usernames for each user that is case-sensitive. The system should distinguish the different users with the unique usernames. The system should alert an admin if an error is produced.

#### 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 allow the boss to change a user without changing the code. The system should adapt to updates. The IT admin will be allowed to install, upgrade, repair or back up the operating system and components.

#### 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 need a username and password to log in. The connection will be secured through encryption through firewalls and anti-virus software. The system must lock an account after 3 failed attempts and require a strong password. The boss will have access to reset passwords if a user forgets. The system should automatically reset a user’s 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.”*

* The system shall validate the user’s credentials when logging in.
* The system shall track user’s movements.
* The system shall allow the customer to make a reservation online using their account.
* The system shall track and display which user is match with a certain driver, time, and car.
* The system shall present the user with the multiple packages available.
* The system shall require a user’s name, address, phone number, state, credit card information, and a pickup location to register.
* The system shall automatically reset a user’s password if forgotten.
* The system shall display previous test, progress, completed test, and driver notes.
* The system shall display a contact page.

### 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 user interface will consist of the following:
  + The company logo
  + Online test progress
  + Driver notes
  + Drive and student photos
  + User’s information
  + Special needs
  + Contact Information
* The users who have access to the system are customers and employees.
* The customer users will need to be able to see online test progress, driver notes, driver and student photos, user’s information, special needs, and contract information.
* The employee users will need to see the driver notes, driver and student photos, special needs, and contact information.
* The user interface will be accessible through a browser on any device such as a computer or mobile device.

### 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 user has access to the internet.
* The user knows their username and password.
* The user has a device that can access the internet
* The user knows the website to log on.

### 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 system will not be accessible without internet access.
* The system has limited resources because John is on vacation.
* The system will have time restraints because we are assuming the customer will not ask for modifications.

### 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.*

Chart, waterfall chart

Description automatically generated