# 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?*

* This project is for our new client, DriverPass. The purpose of the system is to provide better driving training to their customers. In addition, the client also wants the system to make reservations for on-the-road training if a customer requires it.

### 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 asked us to build a system that will allow customers to take online driving classes, practice tests, and reserve a vehicle for on-the-road training.
* DriverPass wants the system to provide their customer a better driver training to prepare them to pass their DMV test.
* Per the client’s request, the system needs to run off the web, preferably over the cloud.
* The system should be able to allow data access from any computer or mobile device.

### 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 system should perform the following functions:
  + Provide online classes
  + Provide practice tests
  + Provide on-the-road training
  + Make vehicle reservation
  + Cancel vehicle reservation
* The measurable tasks needed in the system design to achieve the functions are:
  + Allow the client to access data online from any computer or mobile device
  + Set client’s employees with different rights and roles
  + Allow the client to track customers’ activities (e.g., who made a reservation, modified if last, canceled it, etc.)
  + Ability to connect to the DMV to stay updated with new rules, policies, or sample questions

## 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 in a web-based environment, preferably over the cloud. The owner would like to access data from any computer or mobile device, and it should only be done online to prevent data redundancy.
* The system should be fast enough to allow all the users to access the website functionalities without delays or complications.
* IT should update the system frequently for security updates, policies from DMV, and any changes the company makes to the interface, for example, new packages options.

#### 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 the most popular platforms: Windows, Unix, Mac, and mobile platforms such as Android and iOS.
* In this case, no database will exit on the website because the information will be stored in a cloud server as requested by the owner.

#### 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 should identify each employee and customer when they enter the appropriate credentials (user names and passwords).
* The input will be case-sensitive; this way, there will be an accurate recognition of the person logging into the system.
* The system should inform the administrator of a problem when any user attempts multiple log-in 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 allow any changes to users without changing the code. The programmers should implement the adding, removing, and modifying options in the code as a regular procedure in the early stages.
* The system should adapt to weekly updates from all the platforms. In addition, the system should be able to download and install any updates from the platforms used.
* The IT administrator should have full access to the system to make any necessary changes, like removing old employees who should have no access. Similarly, the administrator can make the changes from any place in case there is an emergency.

#### 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 is required to enter a case-sensitive user id and password.
* The connection or data exchange between the client and the servers can be secured using a cipher algorithm. In addition, the connection can also be secured by a third-party encryption company.
* In case of a “brute force” hacking attempt, the administrator must perform an account lockout. Once the account is unlocked, the user should change the password with a strong password combination.
* If the user forgets the password, the system should provide a link to change it.

### 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 allow access to data from any computer or mobile device online.
* The system shall allow reports downloads and other information in Excel format.
* The system shall allow customers to make appointments, cancel and modify information online.
* The system should allow customers to reset their passwords.
* The system shall be able to receive notifications from DMV when updates are available.
* The system shall identify the driver the customer is scheduled to go out with.
* The system shall track down which user is matched up with a specific driver, time, and car.
* The system shall provide different driving packages to the customers.
* The system shall provide practice tests and classes.
* The system shall be able to disable a package when it is no longer available.

### 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 needs of the interface are to provide customers/students with their online test progress. Allow the driver to comment on the student’s session. Allow the secretary and students to update contact information. Finally, to allow the customer/student to contact the company and vice versa.
* The users will interact with the interface using a laptop, desktop, or mobile devices like a tablet or a cellphone with an internet connection.

### 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?*

* Several things were not addressed in the design. First, budget; there was no information about how much is the team counting on. The second thing is time; there was no specific time on how fast DriverPass wants the system running. The team’s assumption to finish the system was approximately five months. The final thing not addressed was the preferred platform. The team assumes that the customer would like to have the system working on the mentioned platforms above.

### 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 team might not be able to complete the system in five months.
* The system might not be ready to be used on all the platforms.
* The system will not work if the is no internet connection
* The budget might not be enough to implement the system on all platforms.
* The team might require more members to complete the system within the time frame.

### 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