# 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 main goal of this project is to devise a robust system for DriverPass, a firm dedicated to improving driver training for individuals preparing for their Department of Motor Vehicles (DMV) tests. The client, Liam, the proprietor of DriverPass, envisions a system capable of managing online classes, practice tests, and on-the-road training reservations. Additionally, the system should enable data access from various locations, both online and offline, and offer different access levels corresponding to the roles within the company.

### 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 desires a system that can optimize their operations and elevate the quality of driver training. The company's mission is to mitigate the high failure rate of DMV driving tests by offering comprehensive training packages. The system should oversee online classes, practice tests, on-the-road training reservations, data access, and user rights management. It should also facilitate tracking of reservations, cancellations, modifications, and generate reports on these activities.

### 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?*

* Upon completion, the system should be able to efficiently manage a variety of tasks to streamline the operations of the driving training company. These tasks include the management of online classes, practice tests, and scheduling of on-the-road training sessions. The system should also facilitate data access from various locations, both online and offline, and offer different access levels based on the roles within the company.

To achieve this, the system design should include the following measurable tasks:

* + User Authentication: The system should be capable of verifying user credentials during login, ensuring that only authorized individuals can access the system.
  + Reservation Management: The system should enable users to schedule, cancel, and modify reservations for driving lessons. It should also keep track of these reservations and generate reports on these activities
  + User Rights Management: The system should assign different access rights to different roles within the company.
* The system should be able to stay current with changes the DMV might make to ensure that the tests and practice provided are up-to-date with DMV requirements. It should be connected to the DMV to receive updates on new rules, policies, or sample questions and notify the admin whenever there is an 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 should be web-based, ensuring access from any computer or mobile device. It should operate efficiently and undergo frequent updates to guarantee optimal performance and security.

#### 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 platform-independent, capable of running on any operating system. The backend should be supported by a robust database to handle data storage and retrieval.

#### 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 differentiate between users based on their login credentials. The input should be case sensitive. The system should alert the admin of any issues or discrepancies in the data.

#### 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 empower the IT admin to add, remove, or modify user accounts without altering the code. It should adapt to platform updates seamlessly. The IT admin should have unrestricted access to all accounts for effective management and troubleshooting.

#### 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 system should require a username and password for user login. The connection and data exchange between the client and the server should be secured using encryption. In case of a brute for hacking attempt, the account should be temporarily locked. If a user forgets their password, they should be able to reset it automatically.

### 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 should authenticate user credentials when logging in. It should permit users to make, cancel, and modify reservations. The system should provide different access rights corresponding to different roles. The system should track user activities and generate reports.

### 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 should be user-friendly and intuitive. The different users include the owner, IT officer, secretary, and customers. Each user should be able to perform tasks relevant to their role interface. The interface should be accessible through mobile and web browsers.

### 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?*

* It is assumed that all users have access to a computer or a mobile device with internet. It is also assumed all users have basic computer literacy to navigate the system.

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### 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 design might be limited by the budget allocated for the project. The time frame for the project might also limit the extent of features that can be implemented. Technological limitations might arise in terms of server capacity and speed, especially if the number of users increase significantly.

### Gantt Chart

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