# 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?***

DriverPass is intended to develop a system that offers thorough training for driving tests.

The client's requirements for the system include enabling students to access online practice exams and schedule on-the-road training sessions.

Furthermore, the system should allow administrators to manage appointments, track user activity, and securely access data from any device.

### 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 has identified a market gap: many students lack proper preparation for driving tests, leading to a high failure rate. To address this issue, the system needs to provide solutions that allow students to take practice exams online, book driving lessons, and track their progress.

Key components include a user-friendly interface, a scheduling system, and secure data management.

### 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?*

~~SORRY ABOUT THE LINES ON THIS PART!~~

~~Please remember the following details:~~

~~- Enable users to register, schedule, modify, and cancel driving lessons online.~~

~~- Provide online practice tests and monitor student progress.~~

~~- Allow administrators to handle user data, appointments, and generate activity reports.~~

~~- Ensure security and role-based access for different user types.~~

~~- Be adaptable to future updates and changes.~~

## 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 must run as a web-based application accessible via both desktop and mobile devices.**

It should be able to handle multiple users simultaneously without any decrease in performance and update content regularly.

#### 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 must be compatible with Windows, macOS, iOS, and Android.

• A backend database is necessary for data storage and management, and it must be hosted on a reliable cloud platform.

#### 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 distinguish between users based on roles (e.g., admin, customer, IT).

#### • Input fields should be case-insensitive, and the system should notify the admin of any issues such as data discrepancies.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?*

IT administrators must be able to add, remove, or modify user roles without altering the code. The system should be adaptable to platform updates, and IT admins require full access to manage 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?***

• Secure login credentials, encrypted connections, and measures to prevent brute force attacks.

• Users must be able to reset forgotten passwords securely.

### 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 must validate user credentials during login.

- The system must allow users to register, book, modify, and cancel lessons.

- The system must provide online practice tests and store the results.

- The system must generate activity reports for administrators.

- The system must support role-based access control.

### 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 will be user-friendly and accessible from both desktop and mobile devices. Various user roles, such as students and administrators, will interact with the system to book lessons, take tests, and manage data. The interface will include dashboards, forms, and progress indicators.

### 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 have internet access and basic computer skills.

•The system will operate in English. The IT staff will be responsible for managing system maintenance after deployment.

### 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's initial release will not include advanced customization features for training packages due to budget and timeline constraints, which may restrict some features.

### My 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 graph of a project schedule

Description automatically generated