# 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 Liam, the owner of DriverPass wants to take advantage of the void in the market. The purpose of this project is to create a system to provide driver training for customers at DriverPass, that includes online classes, practice tests and on-the-road training.

### 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 significant gap in the market for effective driver training solutions. With over 65% of students failing their driving tests due to inadequate preparation, the company seeks to develop a system that enables flexible access to educational resources and practical training. The system will support online learning and facilitate lesson scheduling.

### 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?*

* Provide users with access to online classes and practice tests.
* Enable scheduling of driving lessons through an intuitive interface.
* Ensure data accessibility for both online and offline use while preventing data redundancy.

## 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 be web-based, accessible on various devices including desktop and mobile.
* It should support real-time data updates to prevent duplication and ensure consistency.

#### 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 application must be compatible with popular operating systems, including Windows and macOS, and should utilize cloud storage for data management.

#### 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?*

* User identification must be secure and accurate, with mechanisms to log changes made by users.
* The system should be case-sensitive for user credentials.

#### 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 for the addition and removal of training packages without extensive code changes.
* IT administrators must have backend access to modify user roles and permissions.

#### 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?*

* Users must log in with secure credentials, with encrypted data transmission.
* The system should lock accounts after multiple failed login attempts and provide password recovery options.

### 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 enable users to create accounts and log in securely.
* The system shall provide a user-friendly interface for scheduling driving lessons.
* The system shall allow users to access online classes and complete practice tests.
* The system shall generate reports on user progress and lesson history.

### 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.)?*

* **Students**: Ability to schedule lessons, access online content, and view progress reports.
* **Instructors**: Access to manage appointments and provide feedback on student performance.
* **Administrators**: Tools to manage user accounts and system settings.

### 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 will have basic digital literacy to navigate the online platform.
* The system will be primarily used in environments with stable internet access.

### 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?*

* Initial development may not include advanced features like customizable lesson packages.
* Budget constraints may limit extensive marketing and user acquisition efforts.

### 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 project schedule

Description automatically generated