# 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 purpose of this project is to design a system for DriverPass that provides online practice exams and on-the-road training for students preparing for their driving tests.
* Client: DriverPass. They want their system to offer online classes, practice tests, and manage on-the-road training sessions.

### 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 needs a system to address the high failure rate of students taking driving tests.
* The system should allow data access from any device, support online/offline work, and enable easy data reporting.
* Components needed include online practice exams, on-the-road training scheduling, user management, and security features.

### 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 facilitate online classes and practice tests.
* It should manage reservations for driving lessons.
* It should track user activities and generate reports.
* It should provide a secure, role-based access system.

## 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 needs to run as a web-based application accessible via browsers on various devices.
* It should be responsive and update frequently, at least monthly, to ensure accuracy.

#### 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 and Unix platforms.
* It will require a robust backend database to support its operations.

#### 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?*

* Differentiate users by unique login credentials.
* Input should be case-sensitive.
* The system should notify the admin of any significant issues promptly.

#### 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 user modifications without changing code.
* It should adapt to platform updates seamlessly.
* IT admin needs full access for maintenance 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?*

* Users must log in with unique credentials.
* Data exchange between client and server should be encrypted.
* Implement measures to lock accounts after multiple failed login attempts.
* Provide a secure password recovery option.

### 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 user credentials when logging in.
* The system shall allow users to schedule, modify, and cancel driving lessons.
* The system shall track and report user activities.
* The system shall provide online practice tests and track their progress.

### 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 accessible via mobile and browser.
* Different user roles (admin, IT officer, secretary, customer) will have specific access and functionalities.
* Users should be able to navigate and use the system with ease, performing tasks like scheduling lessons and taking practice tests.

### 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 basic internet access and a compatible browser.
* Users have basic computer literacy to navigate the system.

### 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?*

* Limited by budget and resources for extensive features beyond initial requirements.
* Time constraints may restrict the addition of future features immediately.

### 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.*

