# 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 aims to create a comprehensive system for DriverPass, a driver training company, with the goal of addressing the limited availability of effective tools that aid students in successfully passing their driving tests. The system's focus is on offering online practice tests and on-the-road training to enhance students' readiness for their driving license examinations.

### 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 is dedicated to enhancing the success rate of its students in passing driving tests by providing online classes, practice exams, and on-the-road training. The system's design facilitates access to user data from both online and offline platforms. It incorporates features for reservation management, activity tracking, and ensuring compliance with the latest rules and policies outlined by the Department of Motor Vehicles (DMV). Additionally, the system caters to diverse user roles with varying access rights, all presented through a user-friendly interface.

### 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?*

* Deliver web-based instructional courses and practice assessments designed for preparing individuals for driving license examinations.
* Facilitate practical on-road training sessions conducted by seasoned drivers.
* Empower users to create, adjust, or cancel reservations for driving lessons.
* Monitor user engagements and furnish comprehensive reports to facilitate oversight and accountability.
* Remain current with the latest regulations, policies, and sample questions provided by the Department of Motor Vehicles (DMV).
* Uphold data security measures and accommodate diverse user roles with tailored access permissions.
* Develop an instinctive and aesthetically pleasing user interface to enhance ease of navigation and user interaction.

## 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?*

* a. Ensure rapid response times for user interactions within the system.
* b. The system must accommodate multiple concurrent users without experiencing significant performance degradation.
* c. Response times for report generation should adhere to acceptable limits.

#### 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?*

* a. The system must be accessible via web browsers and mobile devices.
* b. Compatibility is required with widely used operating systems such as Windows, macOS, iOS, and Android.

#### 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?*

* a. Accurately capture and display user data, including reservations, progress, and test results.
* b. Ensure numeric calculations, such as test scores, are consistently precise.

#### 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?*

* a. Easily adapt the system to future changes in DMV rules, policies, and sample questions.
* b. Support the addition or removal of driving lesson packages with minimal technical complexity.

#### 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?*

* a. Securely store and transmit user data, encompassing personal and financial information.
* b. Assign appropriate access rights to different user roles, allowing account management and the ability to block unauthorized access.

### 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.”*

* [Insert text]

### 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.)?*

* a. Develop an interface that is intuitive and user-friendly, facilitating easy navigation.
* b. Display user progress comprehensively, showcasing completed and ongoing tests with relevant details such as test name, duration, score, and status.
* c. Enable users to schedule, modify, and cancel driving lesson reservations through the online platform.
* d. Implement a communication feature allowing users to contact DriverPass within the system and receive timely responses.

### 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 possess fundamental computer literacy and have internet access.
* Users are expected to provide accurate and valid information during the registration and reservation processes.
* The system will be constructed using cloud-based technologies to ensure scalability, reliability, and data backup.

### 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?*

* Non-developers will not have access to modules allowing easy addition or removal of functionality within the system.
* Considerations for future feature additions will be addressed in separate releases, not integrated into the initial system design.

### 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 computer screen

Description automatically generated*