# 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 build an integrated system for DriverPass that supports online and in-person driver training.
* The client, DriverPass, wants a system that enables customers to register, take online practice exams, schedule on-the-road lessons, and track progress.
* The system must be accessible via web and mobile platforms.

### 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 wants to address the problem that more than 65% of DMV applicants fail their driving exams due to poor preparation.
* They need a system that includes user management, lesson scheduling, package selection, and DMV compliance updates.
* The system should support reservations, test tracking, administrative access control, and reporting.

### 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 secure user registration and login capabilities.
* Allow customers to schedule, cancel, and modify driving appointments online.
* Track appointment history and who made or modified changes.
* Enable administrators and IT personnel to manage users and reset passwords.
* Offer real-time syncing with DMV rule updates.
* Enable detailed test tracking with timestamps and scores.
* Provide a report system that can be exported for offline review.

## 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 responsive and able to handle concurrent users without delays.
* Should function in a web-based environment with minimal latency.
* Must be updated regularly to ensure security and compatibility.

#### 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 cloud-based and accessible from Windows, macOS, Android, and iOS.
* Must integrate with a cloud database for secure storage and real-time updates.

#### 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?*

* Users will be identified by unique login credentials.
* Inputs such as usernames and passwords must be case-sensitive.
* Admins should be alerted of system errors or unauthorized access attempts.

#### 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 IT admin should be able to enable/disable training packages without code changes.
* The system should remain compatible with major browser and OS updates.
* Must support role-based access for IT, management, secretary, and customers.

#### 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?*

* Login requires a valid username and password.
* Data should be encrypted in transit and at rest.
* Implement account lockout after multiple failed login attempts.
* Provide secure, automated password reset functionality for users.

### 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 customers to register and update their profile.
* The system shall allow customers to schedule, modify, or cancel driving lessons.
* The system shall track all user activity related to bookings and updates.
* The system shall store training packages and allow them to be enabled or disabled.
* The system shall provide an interface for online practice tests with status tracking.
* The system shall notify staff when DMV updates are available.

### 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.)?*

* Interface must be accessible via modern web browsers and mobile devices.
* Customers should see their test progress, lesson schedule, and driver notes.
* Secretaries need to input customer data and manage bookings.
* IT and admin users should manage user accounts, reset passwords, and generate reports.

### 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?*

* Customers have internet access for registration and scheduling.
* DMV will provide timely updates in a compatible format.
* Users will use standard, supported browsers and devices.

### 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?*

* Offline data editing is not allowed to prevent redundancy.
* Only developers can add new training packages in the initial release.
* Budget and time constraints limit features to essential functions for now.

### 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

AI-generated content may be incorrect.