# 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 wants to improve the way people prepare for their DMV driving tests.

 The goal is to build a system that offers online courses, practice exams, and on-the-road lesson scheduling.

 The system should be secure, easy to use, and accessible from any device.

* Our consulting company will design the system to support both students and staff with essential tools for training and management.

### 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?*

* Many people fail their DMV exams because they don’t get proper training.
* DriverPass plans to solve this by combining online education with flexible in-person driving lessons.
* The system must support account management, lesson booking, progress tracking, and DMV policy updates.
* It also needs to generate reports and allow secure access to information.

### 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?*

* Allow students to register and select from multiple training packages.
* Let users schedule, reschedule, and cancel lessons.
* Give secretaries access to input student information manually.
* IT admins should be able to manage user accounts and monitor system activity.
* Enable downloadable reports for management and notifications for DMV updates.
* Make the system flexible for future changes while remaining easy to navigate.

## 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 will be web-based and hosted in the cloud.
* It should work efficiently on both desktop and mobile devices.
* Key functions should load within 1–2 seconds.
* Regular updates should be possible, especially when DMV policies change.

#### 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?*

* Must run on all modern browsers (Chrome, Firefox, Safari).
* Compatible with Windows, macOS, iOS, and Android.
* Requires a backend database for secure data storage (e.g., appointments, test results, user profiles).

#### 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 must recognize different user roles: student, secretary, IT admin, and owner.
* Inputs like passwords should be case-sensitive.
* The system should notify admins of suspicious activity or scheduling errors.

#### 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?*

* Admins should be able to enable or disable training packages.
* The system should stay functional after browser or platform updates.
* IT admins need full control over user roles and activity logs.

#### 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 system with username and password.
* Password reset feature required for students and staff.
* Use encrypted data transmission (SSL/TLS) to protect sensitive information.
* Lock accounts after repeated failed logins and notify the admin.

### 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 allow students to register, schedule, modify, and cancel appointments.
* The system shall enable secretaries to enter customer data from calls or walk-ins.
* The system shall let users select one of three training packages.
* The system shall track student progress, test results, and driver notes.
* The system shall notify staff of DMV policy or test changes.
* The system shall allow the download of reports and data summaries.
* The system shall log all user actions for auditing and accountability.

### 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 responsive and work on mobile and desktop.
* Students should be able to view their progress, test history, and appointments.
* Secretaries need an input form for entering student information and scheduling lessons.
* IT admins need advanced features for user management, logs, and system settings.
* The UI should be clean and easy to use for all user types.

### 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?*

* All users will have internet access and a working device.
* The DMV will provide updates in a format the system can process.
* Payment processing will be done securely through a third-party service.
* All users will have basic digital literacy to interact with the platform.

### 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?*

* Only developers will be able to add or remove modules in the system.
* Budget and time constraints may limit some advanced features.
* The system’s accuracy depends on the DMV’s ability and willingness to share data.
* Future customizations may require new development cycles.

### 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.