# 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 is developing a system to support both online practice exams and on-the-road driver training.

 The goal is to better prepare students for their driving exams and reduce failure rates.

 The system should support scheduling, training packages, progress tracking, and secure role-based access.

### 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?*

 The current gap in quality driver training creates a market opportunity.

 DriverPass wants to offer structured online and in-person training packages with flexible scheduling.

 Components include user management, package customization, scheduling, reporting, and DMV data syncing.

### 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 students access to training resources, progress tracking, and appointment scheduling.

 Allow staff to manage reservations, update packages, and view activity logs.

 Ensure security, flexibility, and access via mobile and desktop browsers.

## 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 and mobile-accessible.

 It should respond within 2 seconds for common actions.

 Monthly maintenance updates or patch deployments as needed.

#### 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?*

 Browser-based, compatible with Chrome, Firefox, Safari.

 Backend must support a secure SQL-based database for user and schedule data.

#### 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?*

 Unique login credentials are required for all users.

 Input forms should enforce validation (e.g., email format, required fields).

 Admins must receive notifications of suspicious activity.

#### 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 disable or re-enable training packages without developer help.

 The system must be scalable and adaptable for future modules.

 IT admins need full access control to manage user roles and system settings.

#### 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?*

 Encrypted logins and password reset functions are required.

 SSL encryption for all data exchanges.

 Lock account after failed login attempts; notify 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 validate user credentials at login.

 The system shall allow students to register and select training packages.

 The system shall let users schedule, cancel, or modify driving lessons.

 The system shall assign students to trainers and vehicles.

 The system shall record and display training progress.

 The system shall log all account activity by user and timestamp.

 The system shall send alerts when DMV updates new rules or content.

### 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.)?*

 User types: customers, secretary, IT officer, and owner.

 Customers will use the web interface to manage lessons and track progress.

 The secretary will use the system to enter customer info and schedule lessons.

 The IT officer will manage access, reset accounts, and oversee system status.

 The owner will monitor performance and pull reports.

 Platform: desktop and mobile web.

### 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 have access to internet-enabled devices.

 The DMV will provide timely updates via an integration or manual import.

 Customer service staff will be trained on the platform at launch.

### 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?*

 New features like custom package creation require developer input.

 No mobile app will be released initially, just a web app.

 Timeline and budget limit integration with third-party calendars or payment systems.

### 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 with colorful bars

AI-generated content may be incorrect.