# 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?*

* Provide a web-based system that helps DriverPass train students to pass DMV driving exams.
* The client, DriverPass, wants a platform that supports practice tests, online class content, and scheduling of in-person driving lessons.

### 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 failure rate for DMV exams is high due to poor training resources.
* DriverPass wants to close this gap by offering online education and real-world driving lessons.
* Components include user registration, test modules, scheduling system, role-based access controls, and data 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?*

* The system should support package registration and scheduling by customers.
* Customers should be able to view lesson progress, take practice tests, and reset passwords.
* Admins should be able to track user activity and manage roles.
* Connect with DMV to retrieve test updates and compliance info.

## 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?*

* System shall be web-based and mobile-friendly.
* Pages should load within 1–2 seconds under normal traffic.
* Regular updates on a monthly basis with weekly backups.

#### 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?*

* Cloud-hosted platform compatible with major browsers on Windows, Mac, Android, and iOS.
* Requires a secure back-end database to manage user data and schedules.

#### 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 distinguish between users.
* Input fields like username and password are case-sensitive.
* Admin should be alerted in case of access conflicts or data duplication.

#### 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 can disable training packages without backend code changes.
* System designed with modular architecture for easy feature extension.
* IT should have full access to reset credentials and manage user rights.

#### 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 with encrypted credentials.
* HTTPS for data exchanges.
* Account lockout after several failed login attempts.
* Self-service password reset via email link.

### 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 users to register and manage accounts.
* The system shall allow customers to schedule and cancel lessons.
* The system shall record activity logs for audit and troubleshooting.
* The system shall notify admins of new DMV updates.
* The system shall support online tests with score tracking.

### 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.)?*

* Interfaces needed for customers, secretary, IT, and management.
* Customers: Register, book appointments, access tests.
* Secretary: Input student details, manage bookings.
* IT: Reset accounts, manage user rights.
* Access via browser and optimized for mobile devices.

### 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 will have access to internet-enabled devices.
* Integration with DMV APIs will be feasible and documented.
* Payment systems will be managed through third-party services.

### 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?*

* No dynamic package editing without developer input.
* Dependent on reliable third-party API access (e.g., DMV).
* Budget constraints may limit advanced analytics and real-time support.

### 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.*

[Insert chart]

