# 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 develop a system for DriverPass to provide better driver training solutions.
* The client, DriverPass, wants a system that allows students to take online practice exams and schedule on-the-road training to improve their chances of passing the DMV test.

### 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 purpose of this project is to develop a system for DriverPass to provide better driver training solutions.
* The client, DriverPass, wants a system that allows students to take online practice exams and schedule on-the-road training to improve their chances of passing the DMV test.

### 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 allow users to:

* Take online practice exams.
* Schedule driving lessons with trainers.
* Track training progress and test performance.
* Securely manage user roles and permissions.
* The design should ensure easy access to training data both online and offline.

## 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 optimized for desktop and mobile access.
* Data retrieval and scheduling functions should respond within 2 seconds.
* The system should allow regular updates to content and security patches.

#### 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 should run on cloud-based platforms, ensuring data security and backup.
* Compatible with Windows, MacOS, and mobile browsers.
* Requires a database for storing user and training 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?*

* The system should support unique user authentication.
* Transactions should be logged to prevent errors and unauthorized modifications.
* User activities such as bookings and cancellations must be recorded with timestamps.

#### 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 system should allow administrators to modify training packages.
* Users should be able to disable or enable training packages based on availability.

#### 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?*

* Multi-role user authentication with access control (Admin, IT, Student, Instructor, Secretary).
* Password reset functionality for users.
* Secure payment information handling for training registrations.

### 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, schedule lessons, and take online tests.
* The system shall validate user credentials upon login.
* The system shall store and track training progress for each user.
* The system shall allow IT administrators to monitor activity logs and manage security settings.
* The system shall send notifications for schedule updates and DMV requirement changes.

### 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.)?*

* Users should be able to access the system via a web interface and mobile-friendly version.
* The interface should include:

-Dashboard for tracking training progress.

-Scheduling system for driving lessons.

-Notifications section for DMV updates.

-Instructor feedback and training logs.

### 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 an internet connection for online activities.
* The IT team will be responsible for maintaining security and software updates.
* The system will be scalable to accommodate future training package updates.

### 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?*

* Initial deployment is limited to English-speaking users.
* Limited budget for extensive AI-driven test assessments.
* Users must manually register training availability changes.

### 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.*

