# 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 client is DriverPass, a company aiming to help students pass their driving tests. They want a system that provides access to online practice exams and on-the-road training.

### 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 has identified a problem where 65% of students fail their driving tests because they rely solely on studying past tests.

The system should integrate online exams and schedule practical driving lessons.

Components needed include a web application, a user database, and a scheduling system for lessons.

### 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?*

* [Access online practice exams.
* Schedule on-the-road training.
* Track progress and receive feedback.

## 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 accessible via any modern browser.

The application should load within 3 seconds and be updated monthly.

#### 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 operate on Windows, macOS, and Unix platforms.

Requires a database for storing user information and exam 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?*

User authentication is case-sensitive and distinguishes between students and instructors.

Admin notifications for login issues or system 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?*

User roles should be manageable without code changes.

Automatic adaptation to platform updates.

IT admin needs full access for troubleshooting.

#### 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?*

Requires username and password for login.

Use HTTPS for secure data exchange.

Lock accounts after three failed login attempts and provide a password reset option.

### 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 upon login.

The system shall allow users to take practice exams.

The system shall enable students to schedule driving lessons.

### 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.)?*

The interface should be user-friendly, supporting students and instructors.

Accessible via desktop and mobile browsers.

Students should view progress and schedule lessons; instructors should manage availability.

### 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 have basic computer literacy and access to the internet.

The system assumes access to modern browsers on all user 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?*

The system may face budget constraints, affecting feature expansion.

Limited by the technology stack chosen for development.

### 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.*

Use Lucidchart to create a Gantt chart outlining task dependencies and timelines. Make sure the schedule aligns with project prioritization and available resources.