# 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 the DriverPass system is to provide students with the resources needed to pass their driving tests by offering online practice exams, educational content, and on the road training scheduling.

### 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 is addressing a highfailure rate among driving test applicants by introducing an integrated system for both theoretical and practical driving preparation. Existing solutions are fragmented, and DriverPass aims to consolidate these into one accessible and comprehensive platform.

### 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?*

* System should be able to:
* Increase student pass rates by at least 20% in the first year
* Provide 24/7 access to online learning resources
* Enable Realtime scheduling of driving lessons
* Maintain secure and accurate student records
* Measurable tasks to achieve objectives include
* User accounts and Roles
* Online practice exams
* Content management
* Driver assignment and notes

## 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 should run as a secure, web-based application accessible from modern browsers, with fast response times of a few seconds. It should update regularly for security, bug fixes, and content changes. Should be done on a monthly or as needed basis.

#### 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 Windows, Mac OS, and mobile devices, with a backend suported by a secure database such as MySQL.

#### 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?*

* Differnet users will be distinguished by unique login credentials, and input will not be case sensitive unless specified for passwords. The system should notify the admin if errors, failed logins, or unusual activity happens.

#### 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 accounts can be added, removed or modified through the admin dashboard without changing code. The system will adapt to platform updates through regular maintenance, and IT admins will have full access to system settings and user management.

#### 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?*

* Users will log in with a unique username and password, with connections secured using HTTPS encryption. Accounts will be temporarily locked after multiple failed login attempts, and password resets will be available through email verification.

### 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 when logging in
* The system shall allow users to schedule and view driving lessons
* The system shall provide online practice exams
* The system shall track and display user progress
* The system shall allow admins to manage courses, lessons, and user accounts

### 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 must be simple for students, instructors, and admins, accessible through both browsers and mobile devices. Students will need to access lessons and exams, instructors will manage schedules, and admins will oversee system operations.

### 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?*

* It is assumed users will have internet access and a device capable of running modern web browsers. It is also assumed that instructors and admins have basic tech skills to navigate the system.

### 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?*

* Limitations include budget constraints affecting advanced features, time restrictions for development, and dependency on third party hosting and security services.

### 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.*

