# 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 project is to develop a comprehensive system that provides customers with online practice exams and scheduling capabilities for on-the-road training sessions.
* DriverPass aims to fill a gap in the market by offering superior driver training solutions, addressing the high failure rate of students who merely study previous tests.
* The system must enable data access both online and offline, facilitate the scheduling of driving lessons, and manage different user roles and access rights effectively.

### 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 trying to fill a gap in the market by offering online courses and practice tests alongside real driving lessons. They want to make sure students are better prepared for their DMV tests.

### The system needs to handle user accounts, allow scheduling, keep track of what users are doing, and make sure everything is secure so personal data stays private.

### 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 primary objectives of the DriverPass system are to provide customers with easy access to online practice exams and allow them to schedule driving lessons tailored to their needs.
* The system should present different training packages and provide real-time updates on training progress and test results.
* DriverPass employees need the capability to manage user accounts, track customer activity, and update training content to ensure the offerings remain current and effective.

## 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 DriverPass system is designed to run as a webbased application. This means users can access it from their computers or mobile devices using a web browser, which makes it super convenient because they can use it anywhere there's internet.
* The system should work quickly, with pages loading in less than three seconds, even when many people are using it at the same time.
* To keep everything up-to-date and working smoothly, the system should have updates about four times a year, especially to stay current with DMV changes or to fix any bugs.

#### 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 needs to work on all the major operating systems like Windows, macOS, and Linux for computers, and iOS and Android for mobile phones. This ensures everyone can use it, no matter what kind of device they have.
* For storing all the data safely and making sure everything is in sync, the system will use a cloud-based database. This is important because it means that all the information is backed up and secure, and it can handle lots of users at once.

#### 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?*

* Each user will have unique login credentials to ensure secure access.
* Login details will be case-sensitive for added security.
* The system will alert administrators to issues like failed login attempts or unauthorized access attempts.

#### 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 need to be able to add, remove, or change user accounts easily without having to mess with the code. The system is designed to allow this kind of flexibility. It will also be modular, which means it can easily be updated or expanded to add new features or comply with new security rules as needed. IT administrators will have full access to make these changes and ensure everything runs smoothly.

#### 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?*

* For logging in, users need a username and password, and there might be an option for two-factor authentication for extra security. All data sent between users and the system will be encrypted to keep it safe. If someone tries to hack an account by guessing the password many times, the account will temporarily lock. Users who forget their passwords can reset them by receiving a link to their email to create a new password.

### 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 interface should be user-friendly and accessible via web browsers on both desktop and mobile devices. Different user roles include:

* Customers: Schedule lessons, access practice exams, view progress.
* IT Officer: Maintain and update the system.
* Secretary: Manage appointments and customer inquiries.
* Owner: Oversee operations and access reports.

### 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 user interface must be intuitive and accessible through web browsers and mobile devices, catering to various users, including customers, IT officers, secretaries, and the company owner.
* Each user type should be able to perform tasks specific to their roles, such as scheduling lessons, managing accounts, and accessing training materials.
* The interface should be visually appealing and user-friendly, ensuring a seamless experience for all users.

### 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 internet access and basic digital literacy.
* Budget and time constraints might limit the full implementation of all desired features.
* Scalability might be an issue until further updates are made.

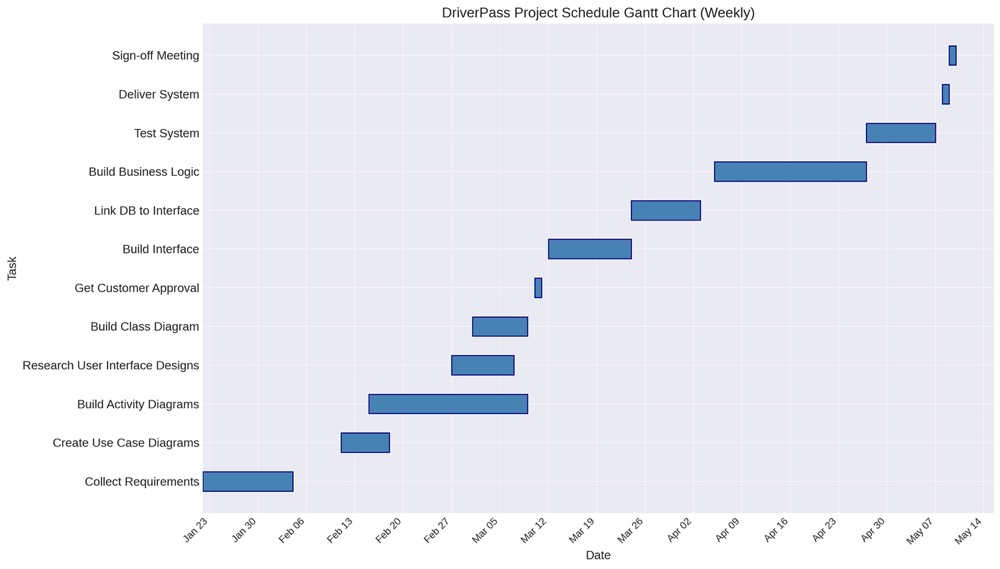
### Limitations

*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 initial system version might not support non-developer modifications of system modules.
* Budget and time constraints might limit the full implementation of all desired features.
* Scalability might be an issue until further updates are made.

### 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.*



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