# 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?*

* This project is all about creating a system for DriverPass to fill the gaps in current driving test prep tools.
* DriverPass wants to help students pass their driving tests by offering online classes, 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 spotted a big need for better driver training tools since over 65% of students fail the DMV test.
* The system will include online learning, lesson scheduling, and progress tracking.
* Users will range from DriverPass employees (like IT staff and secretaries) to students.

### 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?*

* For customers:
  + Access online classes and practice tests.
  + Schedule, modify, and cancel driving lessons online.
* For DriverPass staff:
  + Manage customer accounts.
  + Track reservations, instructor assignments, and payments.
  + Generate activity and system reports.
  + Ensure the system is secure, adaptable, and compliant with DMV standards.

## 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 needs to be cloud-based for easy access and minimal downtime.
* It should handle multiple users at the same time without lag and get updates every two weeks if needed

#### 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?*

* It must run on common web browsers and mobile devices.
* A secure database is required for storing sensitive information.

#### 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 be identified with a unique username and password.
* Admins should get instant alerts about any issues like data mismatches or security problems.

#### 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?*

* IT staff should be able to easily add, change, or remove user accounts without touching the code.
* The system must adjust to platform updates with minimal effort and allow for flexible package 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?*

* Strong passwords and multi-factor authentication will secure logins.
* All data exchanges will use encrypted protocols.
* Accounts will lock temporarily after repeated failed login attempts, and password resets will be available via email.

### 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 will validate user credentials during login.
* Customers will be able to schedule, modify, and cancel lessons online or through staff.
* It will track and assign instructors, vehicles, and schedules.
* Notifications about DMV updates and new materials will be sent to users.

### 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 user-friendly and work on desktops and mobile browsers.
* Customers will use it for lesson scheduling, package selection, and tracking their test progress.
* Staff will have tools for managing accounts, scheduling, and generating reports.

### 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 computer skills.
* DriverPass staff will receive training to use the system effectively.

### 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 won’t let non-developers add or remove packages; this will need IT assistance.
* Budget and timeline constraints may limit some advanced features like full customization tools.

### 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.*

A screenshot of a project

Description automatically generated