# 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?*

 **Client**: DriverPass

 S**ystem Purpose**: Provide better driver training to help customers pass their driving tests. This includes online classes, practice tests, 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?*

* **Client's Vision**: Address the market need for better driver training to reduce failure rates at the DMV.

**Components Needed**:

* Online access for data
* Secure system with role-based access
* Reservation system for driving lessons
* Tracking system for modifications and reservations
* Flexible package customization

### 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?*

 Online and offline data access

 Secure access with different user roles

 Reservation and scheduling system

 Tracking and reporting of user activities

 User account management

 DMV compliance updates

 Flexible interface with a focus on minimal technical problems

## 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?*

 **Environment**: Web-based, cloud-based system

 **Speed**: Fast data access and processing

 **Updates**: Regular updates, especially for DMV compliance

#### 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?*

 **Platforms**: Windows, Unix

 **Tools**: Requires database support for backend

#### 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 Distinction**: Unique user identification

 **Case Sensitivity**: Yes

 **Admin Alerts**: Notification for errors or issues

#### 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 Management**: Easy modification of user roles without changing code

 **Platform Updates**: System should adapt smoothly

 **Admin Access**: Full access for IT admin

#### 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?*

 **Login Requirements**: Secure login process

 **Data Exchange**: Secure connections

 **Hacking Protection**: Account lockout after repeated failed attempts

 **Password Reset**: Automated 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 when logging in.

 The system shall allow users to make, modify, and cancel reservations online.

 The system shall provide role-based access control.

 The system shall track and report all modifications and reservations.

 The system shall handle DMV compliance updates.

 The system shall manage user accounts, including password resets.

 The system shall support package customization (activation/deactivation).

### 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.)?*

 Clear and user-friendly design

 Accessible via web and mobile devices

Users:

 Owner: Full access to all system functions

 IT Officer: System maintenance and account management

 Secretary: Manage appointments and user information

 Customers: Schedule and manage their appointments

### 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 internet access and are familiar with online systems.

###  The system will not require major changes to the underlying code for most 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?*

 **Resource Constraints**: Limited budget and time for development.

 **Technological Constraints**: Dependence on cloud service providers for security and backup.

### 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 table with text on it

Description automatically generated