# 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?*

* DriverPass wants to offer driving classes and practice tests to their customers.
* These tests and classes prepare their students for the written and driving tests administered at the department of motor vehicles.
* The system needs the ability to access documents and information online as well as offline.
* The system needs to be divided into levels of access.
* The system must have the ability to make reservations online as well as phone and in person.
* The system must track who modifies reservation 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?*

* The system must allow access to clients via user accounts.
* Allow clients to access their test history, driver comments, and reservation scheduling.
* Allow clients to choose packages offered by DriverPass.
* Allow for the addition and removal of packages.
* Have multi-level secure access.
* Preferably cloud based to alleviate the need for maintenance.
* Access the department of motor vehicles for updates to DMV policy and rule changes.

### 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?*

* Give clients a high-level view of their personal student history including test progress, reservation times, reservation update/change and driver comments.
* Allow secretary to add and alter reservations and create user accounts.
* Driver access to update driver comments and driving scores.
* Owner access that allows for changes in permissions to all other accounts.
* Access to data online and the ability to download information for reference offline and later use.

## 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.*

* The system shall create a database that contains student, test, and instructor data.
* The system shall create an activity report when information is changed in the system.
* The system shall ensure that user data is secure.

#### 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 shall run in a cloud-based server
* The system shall operate with minimal connection speeds
* The system shall be updated whenever a change or update happens

#### 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 shall run on a Windows system
* The system shall be maintained by the host service
* The system shall contain a database with account, student, instructor, and test 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?*

* The system shall distinguish users based on login credentials
* The system shall have case-sensitive user ID and password
* The system shall inform admin as soon as a problem is discovered

#### 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?*

* The system shall allow master admin account to add/modify/remove users without changing code
* The system shall inform users of scheduled maintenance
* The system shall perform platform updates during scheduled maintenance
* The system shall allow IT access to connection and problem data

#### 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?*

* The system shall only allow users with a registered account and password access
* The system shall use encryption system to secure data between sources and sinks
* The system shall block and lockout any hacking attempt immediately upon discovery
* The system shall allow master admin account to reset user passwords

### 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 determine user access based on login credentials
* The system shall collect and display data from the database based on user credentials
* The system shall allow users to schedule appointments
* The system shall users to take online tests

### 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 system shall allow access by administration
* The system shall allow access by student
* The system shall display company logo
* The system shall display online test progress
* The system shall display user information
* The system shall display driver notes
* The system shall display special needs
* The system shall display driver photo
* The system shall display student photo

### 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?*

* Drivers, students, and administration have access to the internet.
* Drivers, students, and administration will have different access levels based on login credentials.

### 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?*

* Cannot be accessed without login credentials.
* Access unavailable without internet connection.

### 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 computer

Description automatically generated with medium confidence