# CS 255 Business Requirements Document Template

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

* This project is for our client DriverPass
* The owner of DriverPass wants to provide students with a new way of learning by providing more comprehensive and engaging material.
* This new system should include online classes, practice tests, and on the road training.

### System Background

* Our client asked us to build a system that allows our customers to take online classes, practice tests, and on the road training.
* The system will run on desktop and mobile devices
* The system will work online and offline.
* The system should be compatible on mobile devices and desktop.
* The system should allow the user to download reports and information that can be worked on at home.
* The system should have proper authorization and access privileges for data security. For example, the IT Officer should have full access over all accounts with ability to reset them if someone forgets their password.
* The system should allow an activity report to be printed which would allow the authorized user to figure out who is responsible for any changes.
* Data should be accessible by the user from anywhere, online, and offline.

### Objectives and Goals

* The system will provide the user with the following functions:
  + Login
  + Make a reservation
  + View reservation details
  + Change reservations
  + Cancel reservations
  + Access online classes and practice tests
* Clients should be able to tell us the day and time when they want to take that lesson.
* Clients should be able to make this reservation online using their account
* System should provide lesson packages.
* System should allow the ability to identify the driver that the customer is scheduled to go out with.
* System should allow users to schedule driving lessons online and offline.
* System should track user reservations with driver assignments and car details.
* System should enable access to lesson history and driving progress.
* Ability for Owner to track which user is matched up with a certain driver, time, and car.

## Requirements

### Nonfunctional Requirements

* System lock after 3 failed login attempts.
* Alerts for failed reservations
* Administrators are notified of security alerts
* Auto updates when connected connecting from offline to online.
* The system shall track driver assignments with time and car details.

#### Performance Requirements

* The system should be accessible via web-based platforms and mobile devices.
* The system should have live updates for optimal performance and security.
* The system should run seamlessly as the most recent data updates should be available.
* The system should only be updated by a user when they are online to prevent data inconsistencies.
* The system should be cloud based.

#### Platform Constraints

* The system should be compatible with most major platforms because users will access the system using different devices using different operating systems.
* The system should use DBSM such as SQL and be able to export to Excel.

#### Accuracy and Precision

* The system should distinguish between the different class of users. The classes are determined by the user DriverPass package they purchased.
* To differentiate between users, users will be assigned with unique IDs that will be checked.
* Input should be case-sensitive for security.
* The system should notify admin of login failures.

#### Adaptability

* IT admins should have the ability to add, remove, or modify users without modifying the system’s
* The system should handle platform updates automatically without requiring manual intervention.
* IT admin will have unrestricted access.

#### Security

* A username and password will be required to log in.
* The system will allow 3 attempts to log in. If the user fails, the third time the system will lock and require a password reset. Passwords can be reset via email. If all fails, the customer can call for help.
* Requires multi-factor authentication for logging in.
* Secure data exchange with SSL/TLS encryption.
* After so many failed attempts the account should lock, and administrators are notified.
* The system should lock the user account including all functionality and payments and notify the administrators of the security alert.

### Functional Requirements

* The system shall determine customer ID from login information.
* The system shall validate user credentials during login.
* The system shall display online test progress, client information, driver notes, a list of special needs, driver photo, and student photo.
* The system shall allow users to navigate and interact with the interface.
* The system shall allow users to make and cancel reservations.
* System should have should provide downloadable reports for offline use.

### User Interface

* The interface should be user friendly and accessible on both desktop and mobile.
* The interface will display the logo, online test progress, client information, driver notes, a list of special needs, driver photo, and student photo.

### Assumptions

* The design mentioned did not specifically consider front-end features such as font size, color, scaling, animations, and accessibility.
* The design assumes the user has no handicaps, has basic computer skills, and has access to a online device.

### Limitations

* The system only updates when online.
* This system will stop functioning if devices are outdated.
* The system is dependent on the cloud services.
* The system is constrained to cloud capacity and personal device constraints.
* The system has a budget limit.
* The system does not have a current add or remove modules feature.
* The system does not have customizable packages.

### Gantt Chart

A screenshot of a project

Description automatically generated