# 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 this project is to provide our client DriverPass with a working system that allows customers to interface with to obtain knowledge, confidence, and repetitions with driving and driving tests.

### 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?*

* Liam the owner of DriverPass has identified a void in driver test training that he wants to fill. The system being built needs to allow him access through any device with an online connection and offline connection.
* His IT support Ian needs full access to the system for security purposes.
* He is interested in recovering user accounts and deleting accounts when they are no longer necessary.
* Along with giving him full access there needs to be different roles assigned and available for the rest of the team.
* The system needs clear tracking to monitor who is making reservations along with who is canceling them.
* Liam also wants to be able to print an activity report.
* Reservations have to be available through call, walk-in, and of course online.
* The customer needs to be able to choose the date and time for the lessons and there needs to be tracking on which driver is assigned to which customer in which car.
* The client currently offers three packages, but the system needs to be adaptable for future additions and changes; Liam also needs to be able to disable packages now.
* The systems needs to be able to collect the customers information along with pick up and drop off locations.
* Finally, the system needs to be connected to the dmv so the information provided is within regulation and up to date and the interface for the website needs to mirror the design that Liam provided.

### 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?*

* A functioning cloud-based website
* Customers can access classes and practice tests as well as reserve driving packages that the client provides.
* The website should have designated roles for employees at DriverPass to utilize
* Have a clear tracker that Liam can use to see who is making and canceling reservations.
* There needs to be a tracker to see which driver goes with which car to which customer
* The owner should be able to disable packages offered to customers.
* The website needs to be able to collect and protect customer information
* Provide drivers notes to administrators.
* The website should mirror the example given by the owner.
* This should all be done by May 9th

## 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?*

* Cloud-based
* Web-based
* Usable through mobile devices
* Pages need to load within 2 seconds
* System should be updated quarterly and as 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?*

* System should be able to run on all platforms and browsers to include mobile platforms to reach the most consumers
* The back end will need a database for user information
* Back end will need a web server

#### 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 a unique user ID and password
* User ID’s and Passwords will be case sensitive
* Admin will be notified if there are multiple failed attempts to login
* Admin will be notified if key functionality is failing

#### 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 full access to add remove and modify accounts
* There needs to be a rollback code available to fall back on if platform updates cause key functionality to fail
* There needs to be an extensive testing environment for new code to ensure that it works efficiently with the already used code

#### 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?*

* There needs to be a two factor authentication option that requires verification through either email or phone
* There can be a maximum limit of login attempts that when the threshold is met the account gets flagged and frozen until the individual can confirm their identity
* If the user forgets their password they can request an admin to provide a temporary login which will encourage them to change their current 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 system shall run efficiently with minimal wait times
* The system shall effectively store user information and credentials
* The system shall have a user role and an admin role
* The system shall allow admins to add remove and modify user accounts
* The system shall provide relevant information about student tests and notes
* The system shall remain up to date with current dmv requirements
* The system shall have classes, practice tests, and driving tests available

### 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 shall show current tests in progress
* The interface shall show the users information
* The interface shall show driver notes and special needs
* The interface shall have a driver photo and a student photo
* The administrator will be able to modify account information
* The user will be able to reserve and book driving course resources
* The interface will be usable and convenient through both desktops and mobile means

### 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?*

* Having a well organized and integrated system. It’s especially important that each section of the website is accurate and able to work well within one another as most of the information will be consolidated on the main interfaceable page.

### 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?*

* Being able to set up a capable server and maintain it for the foreseeable future. This can be mitigated through clear designation of teams and team responsibilities although sourcing the servers and being able to maintain the information and user capacity can provide a limitation. Along with the aforementioned items, the budget plays a big role in limitations. Budget will directly influence how many members of the team there are and what the end product looks like within our time frame.

### Gantt Chart

A graph of a project

Description automatically generated