# 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 the project is to address the existing gap in the market for effective training of students preparing for their driving tests at local Department of Motor Vehicles (DMV). The client, Driver Pass, aims to provide comprehensive driver training through a system that offers online classes, practice tests, and on-the-road training.

### System Background

*What does Driver Pass want the system to do? What is the problem they want to fix? What are the different components needed for this system?*

* *Driver pass wants the system to be able to provide access to online classes and practice tests.*
* *Be available both online and offline with the ability to download reports.*
* *Drivers should be able to make reservations for in person lessons.*
* *Support user with levels of access, the IT workers and secretary should be able to access the system. The Its department should be able to reset passwords.*
* *Connection with DMV to stay up to date.*

*The problem they want to fix is the lack of good driver training. Liam says that by starting his company he will allow drivers to take tests, practice tests and even in person on road training.*

***Different components***

* *User management component*
* *Classes and testing platform*
* *On the road scheduling*
* *Data storage for online and offline use*
* *Reservation manager for driving lessons since there are multiple cars. Including pickup location and drop off location.*

### 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?*

* User friendly interface for accessing classes and tests.
* Ability to sign up and log in.
* Online scheduling, modification, and cancelation ability
* Convenient access to the reports and data for offline work
* Ability for secretary, its department to access the system.
* Facilitate communication between driver, instructor, and company.
* Connection with DMV to stay up to date.
* Online test progress, information, driver notes, special needs with driver photo and student photo

## 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 should run off a cloud wed based environment. The system should run fast as it gets annoying to be on a slow web application from a customer point of view. The system should be updated when the client makes a change to the system such as disabling a package.

#### 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 web app should run on Linux. Linux is cost effective. The backend will require a database that keeps track of the user credentials. It should also hold data to keep track of any driving appointments, drivers, cars, users, and times.

#### 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 will be able to distinguish from users by allowing users to have a username and a password, these should be case sensitive and should not be duplicates of other usernames in the system. The system should inform the admin of a problem when there is a bug or a glitch.

#### 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?*

* Yes, the system will be able to add / remove / modify users. As new features for the system come in, the system will be introduced to updates. The IT admin needs access to all the user accounts in case of a forgotten password or to block unwanted access.

#### 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 User will need a password and username top log in.
* The connection between the client and the server will be ran through the cloud which often offer encryption such as TLS or SSL.
* In case of Brute force attacks, an account should lock after 3 attempts.
* If the user forgets a password, an option should be available to reset it through email or by contacting the IT admin.

### 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 use 2 factor authentication to validate users /sign up.
* The system shall allow users to book reservations.
* The system shall allow users to choose from different packages.
* The system shall pair a driver, and a car with the customer.
* The system shall show the progress the user has made on the course.
* The system shall allow different types of users to access different parts of the system, users – user platform, admin – admin platform.

### 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 needs to allow users to choose a package, make reservations take online test / courses. It also needs to show the course progress.
* The different users are the Admin, IT department, The secretary and the Customers .
* The user should be able to interact with the UI through any mobile device, laptop, desktop, and any browser if their device has internet.

### 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?*

* An assumption I am making is the number of customers that will be using the web app simultaneously, I am also assuming on the budget as it was not discussed.

### 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?*

* We were not given a budget so we must assume which makes it more difficult for us as we must not overspend on the costs of the system, but we still need to make it efficient.
* We also have about a set timeframe to build this entire system which is also a limitation.

### Gantt Chart

*Please include a screenshot of the GANTT chart that you created with Lucid chart. Be sure to check that it meets the plan described by the characters in the interview.*

A gantt chart with numbers and a number

Description automatically generated