# 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 needs an application built to help with their driver training courses whether it be online or in their facility.
* DriverPass needs a role-based access system that allows for users to sign up for classes to meet their goal of training customers to be better drivers.

### 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?*

* DriverPass needs a system that can be accessed online from anywhere.
* The problem being fixed is better training for drivers on the road.
* The ability to download documents for access offline.
* Role based access system (Owner, IT, Secretary)

### 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?*

* The system should be able to let user make, cancel, modify appointments.
* The system will start with three different packages but needs to be able to disable packages
* The system should accept customer information (First Name, Last Name, Address, Phone, State, Credit Card Number, expiration date, and security Code)
* Needs connection to DMV for rules, policy, and sample question for practice exams
* Information should also include a pick-up location and drop-off location
* Security should be on a role base access system
* The system Should offer three packages to choose from.
* Roles include Owner (Full Access), IT Officer (System rights and modifying), Secretary (Appointment creation and modification)
* The User interface will be a multi-page layout which includes student page, registration, and contact us pages.
* Student pages should include student information, driver notes (Lesson Time, Start-End time, Driver Comments) Driver Photo, Student Photo, Special Needs, and Online test progression.

## 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 on the cloud base web server
* The system should run fast
* The system needs to be updated when new information is given from the DMV or new features are added

#### 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 should run on a cloud base web server
* It should allow for multiple browsers to be supported
* Database should be used to store customer and user information
* Database should be linked to user interface

#### 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 use a role-based access system.
* Case-sensitive was not discussed but is encouraged to have better security.
* The system needs to notify the admin whenever a problem arises, or an update is available.

#### 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 should allow for user modification by the owner and IT admin only.
* All other roles should only be allowed to do assigned tasked set by their role.
* The IT admin should be able to set roles, modify and block.
* The Owner should be the only role allowed to delete users.
* The admin also needs the ability to maintain the system.

#### 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 must have a username and password.
* The data exchange can be secured using the https encryption protocol to secure the exchange.
* Accounts should be locked out if excessive attempts to logon are unsuccessful. (Normally 3 attempts)
* If a user forgets their password the owner account or system admin should be able to reset the password.
* For regular users (students) accounts should offer a reset password link and security question for resets.

### 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 users using credentials.
* The System should let the owner access files from remote locations.
* The System shall track usage of the system and place information in logs.
* The System shall allow reservations to be made.
* The System shall allow packages to be disabled if package amount is maxed.
* The System shall allow the secretary roll to make appointments.
* The System shall allow the Owner to download reports for offline viewing.

### 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 will run on web-based browsers utilizing the cloud for things such as data storage and hosting.
* The system should allow for a hosting company to run the site to minimize the technical work required to maintain the system.
* The different users of the system will be Owner, Customer, Admin, Secretary, Other Users.
* The interface will be shown on a browser.
* The interface should support both mobile and desktop views on a browser.
* The interface will show the logo on the top of the page, Online test progress will be a block on the left side of the page with driver notes under this section. Customer information will be in a block beside test progress and will contain information such as first name, last name, etc. Under this will be special needs and photos of the driver and student.
* The interface should have a sign-up page to register new users and students.

### 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?*

* The system will need limited maintenance.
* The company will hire employees to help maintain and upgrade the system.
* The users will only work withing their respected roles.
* The system will have little downtime using external hosting methods.
* The system contains all features required to start using the system.

### 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?*

* The project should be finished by May 12.
* The project will need to use external hosting of the website to allow for limited maintenance.
* The customer gave hand-drawn details of how the interface should look.
* Depending on customer approval on March 10, the schedule would need to be updated.
* This would also cause the team to be go over budget.
* The team consists of 5 people.

### 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