# 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 project’s purpose is to take advantage of a void int the market when it comes to driver training. DriverPass is looking to build a system that can keep track of company data from anywhere and give access to complete transactions via the web.

### 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 is looking for a system that will allow admins to pull reports about clients from anywhere. The system must also allow for users to be created over the web and to allow for employees to also add clients over the phone. The System must also allow for purchasing of packages by clients and to create reservations. The system must also track who created, modified, or canceled the reservations. The system must also allow for the editing of packages.
* For all of these either a server or a cloud will be needed to store the databases for all data will need to be kept track of for processing transactions. There will also need to be an interface so that users will be able to interact with the database safely and securely.

### 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 fulfill all the needs of the client and create a nice experience for users. Things that need to be completed are diagrams of the system, an interface design, business logic and a database. All of this should be able to be completed by May 9.

## 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 is online so it will need to be connected to a server but needs to have offline functionality.
* The application should be simple for users to navigate and have access to videos, this should be fast.
* The system should have a way to update when the DMV updates

#### 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 multiple platforms. The server side should run on Linux but clients should run on multiple platforms.
* A database will be needed to hold all of the users 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?*

* There is a need for different users to have different privileges.
* System must make sure that users are not duplicated.
* Different classes of users should be Customer, Agent, Tech Support, System Administrator and Owner
* Administrator and agents need to track reservation details such as, who made the reservation, who cancelled it and who made the last modifications.
* The system should alert the admin as soon as there is an error.

#### 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 users to make modifications to there account without having to get admins involved.
* The system should allow for modules to be added or modified to update new information.

#### 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?*

* Access for employees should be different than that of customers.
* The system should require all users to login with username and password.
* If a brute force attack is detected the system should lock the account for a set period or require two factor authentication.

### 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 verify credentials upon logging in.
* The system shall allow users to change their personal data.
* The system shall store practice exams.
* The system shall be kept up to date with DMV requirements.

### 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.)?*

* Owner needs access to all data
* The IT officer needs access to make changes to the system.
* Agents should be able to modify reservations and user data.
* The users should be able to make, cancel or modify appointments online.

### 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?*

* Different languages
* Visual should be appealing.

### 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?*

* Modules will need to be able to be added and modified after initial release.
* The deadline is May 10th.

### 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*