# 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?*

* Our client DriverPass wants to create a program that they can use to schedule training sessions with their clients for driving tests to help their clients successfully pass the DMV driving test. They want the clients to have the ability to pick between 3 different packages. They want to be able to track their client’s progresses and the ability to assign client to a car and trainer. They also want the administrative account, so the manager has full access to the application and give limited access to employees. IT has to be an online application.

### 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?*

* DrivePass wants to be able to track their clients progresses. They want to be able to download and create reports offline, make changes online. They want to be able to assign client to a car and driver. Their clients need to be able to make reservation both online and/or offline. They want different layers of account users for their own employee with the big boss having full administrative access. The ability to track who made a reservation, cancel a reservation and modify a reservation.

### 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?*

* DriverPass client should have the ability to make a reservation online with specific time/date and pickup location. The application should have the ability to allow system administrative give out specific access based on the employee ranking in the company. The application should haver the ability to track the client/driver/car and time during any given training session. The client should be able to cancel, modify and make reservation. DriverPass should be able to download reports and analyze reports offline. Application should have the ability to get updated based on new DMV requirements. All privacy security for the application should be in place.

## 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 needs to be web-based. System should be updated every quarter.
* The system should run efficient enough that at the peak usage, it shouldn’t slow down the entire system.

#### 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 be run on Windows.
* It is the cheapest and most compatible to the most users.
* Databases need to be used to save customer 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?*

* Each user must create a unique identifier, not case sensitive.
* System should provide immediate warning to any problem.

#### 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 needs to have the ability to add/remove/modify coded into the application, so non-programmer can adjust any modification based on business needs on the fly.
* The system should have on-air update that gets sent out every time there is an update.
* IT admin should have full access to the application.

#### 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?*

* Multiple layers of authentications when users log in.
* Use the secure socket layer for authentication and encryption.
* Password requirements. Secure file transfer protocol and SSH keys authentications.
* Use Captcha and two factor authentications to prevent brute force hacking attempts.

### 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 user credentials.
* The system shall verify captcha.
* The system shall allow clients to make/modify or cancel a reservation online.
* The system shall allow administrative account to give access to other accounts.
* The system shall allow user to download and analyze report offline.
* The system shall allow periodic update from DMV.
* The system needs to have the ability to save customers Data.
* The system shall allow students to change their password.

### 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.)?*

* Logo of the company
* Online test progress tab
* Client information
* Driver notes
* Status of students
* Drive and student photos
* Trainer should be able to modify driver notes.
* User should be able to use mobile and browser to interact with the interface.

### 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?*

* Users using Windows operating platform.
* Mobile devices to make reservations.
* Interface that scales well with different mobile devices.
* Availability of internet connections.

### 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?*

* Deadline of 3 months and 10 days to complete the project.
* Time constraints for each part of the designs.
* The system can only be edited online.
* System maintenance.
* System updates from DMV.
* Scalability on mobile devices.
* GPS tracking on training cars.
* Time keeping for training sessions.

### 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.*

Chart

Description automatically generated