# 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 create a better system that allows students to be trained and to help students prepare for driving tests.]
* [Liam is the client with hopes to implement online training and practice tests, as well as having in real life training assistance from the Driver Pass workers.]

### 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 wants the system to be accessed online, as well as offline. However, the dev team is concerned about the possible encounters with saved changes.]
* [From the notes, the dev team recommends that the system should run off the cloud for the interface. They are also taking security into account.]
* [There should be different clearance level of employees that should be able to access private information.]

### 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?*

* [1. Let consumers to choose a package, depending on the package, the client wants the ability to disable packages when they are already booked.]
* [2. When students take their tests online, it should show the progress, as well as showing what's in progress, and tests that are finished. The layout should be the following: test name, time taken, score, and status. The status can display as not taken, failed, passed, or in progress.]
* [3. the client wants to see any comments from the driver’s notes, and the time taken in the lessons.]
* [4. The client should be able to track what driver is matched with a customer, the time, and car.
* [The main tasks that should be included in the system design to achieve this is staying informed of customers tracking, tests, Schedules, etc.]
* [5. The client needs the ability to access information offline.]

## 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?*

* A web-based system and the use of cloud features is what the client wants. The client wants the system to respond quickly to user input with no complications. The system needs to update automatically and should send out a notification when an update is available.

#### 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 needs to be available on multiple platforms and devices (computer, phone, tablet, etc.) to make sure multiple users can use their system. The systems use of cloud wouldn’t require too much in resources since cloud already has built in tools/databases. Cloud also has built in security and databases for backend functions.

#### 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?*

* Username and password need to be set up by user upon setting up the account. The password’s input should be case sensitive with a two-step authenticator for extra security. The system needs a way to alert administration of any problems such as glitches, bugs, and security issues.

#### 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?*

* Administration/IT Admin would need to have access to the company’s cloud resources, this ensures authorized users can manage the system. This can help with any security breaches and can make sure that the system is running as it is supposed to. Authorized individuals should have access to modify users or remove users or employees without having to update 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?*

* For a user to log in they would have to contact someone who is authorized to provide their name, phone number, location, and their payment information. After having those details enter, the user would create a username and password. Once an account is created this would allow for administration to track users’ movement through cloud interactions from client to server side. For users to reset password, they will have to follow instructions on resetting the password. The system would alert administration if any data breaches were attempted as well as user progress.

### 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 prompt for a valid username and password
* The system shall offer three packages
* The system shall run efficiently and consistently
* The system shall book reservations
* The system shall allow practice tests and classes
* The system shall have driver’s users can train with
* The system shall provide privileges for users
* The system shall show completed tests and classes
* The system shall log driver and user interactions

### 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.)?*

* Users should be able to long into the cloud from any device. Users should be able to schedule and modify appointments. Users should be able to update and edit their information. Users should be able to access practice tests and classes. Users should be able to add special requests and request accommodations. Users should be able to add a picture of themselves. The interface would have to have areas with these selections available and different screens for both instructors and users.

### 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 clients did not specify a specific budget. Without a budget the equipment needed to complete the system is assumed in that budget.

### 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?*

* One of the limits is the time, the time limit gives the program 5 months to be developed without a budget. There might be a need for a larger team to complete this project within the time limit. It is best to finish this project quickly to stay within the limitations.

### 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 chart with multiple colored boxes

Description automatically generated with medium confidence