# 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 provide student drivers with practice and training before taking their online and in-car driving test. The client is DriverPass and they want their system to : include practice tests for students, display information about the students, their progress towards completion, and notes from their trainer.

### 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 able help student drivers for their driving exam, both online exam and an on-road. The problem that needs to be addressed is that too many student drivers fail their driving tests on the first attempt. The application will provide practice tests and in-person training to prepare the student to pass the test on the first attempt. The different components of the system would include online study guides, a progress tracking bar, and the login details of user. When it comes to security, all users need to be authenticated. As an additional component that is needed would be a server, this would allow data storage.

### 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 wants the system to provide study guides for student drivers that will help them to accomplish given objectives before taking their first driving test and earn their license. They would like the student progress to be displayed within the students personalized account along with their information including, how they contact information, payment information, etc. The client wants to have trainer notes included in the student drivers’ account information to inform each student of their weakness and their strengths. The system should include a grading capability. Users should be given access to update their profiles when and if necessary. And as for the last, the system should give DriverPass personnel access to add and remove accounts on an as needed basis.

## 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 environment for this system would be the web for the customers. The system should be able to hand various customer accounts and request at once. For the personnel, they need to be able to access this system from the web as well and as well as offline. Administrators should be able to access and update system from anywhere, both online and offline. The system should be updated when a change happens at the DMV.

#### 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 application should be able to run on all operating platforms. The back-end would require databases proportional to the size of the application. And the use of cloud will provide the space needed to run the program, additional upgrade if needed, and also the security and backup needed to keep the client and customer information safe and secure.

#### 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?*

* To distinguish between users, each user must have a unique username and code; If a new user tries using a username that is already being used, the user will be notified to pick another username. The input will be case-sensitive to ensure total uniqueness and accuracy of identification. The system should automatically inform administration of any problems with accounts and/or faults in the system. This will ensure that the system stays up-to-date and online. And any updates from the DMV.

#### 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?*

* You can make change to the user without changing the code. IT administration will need full access to make platform updates they won’t need to bring down the system for that. Administrative staff will also have full access in order to delete or modify existing user accounts within the system. Administrators would need to log in with a unique username and password.

#### 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?*

In terms of security, each user will need an username and a password in order to access the system. To secure the connection between the client and the server, the client has requested that the system runs over the cloud. This option offers backup and additional security features. Accounts password can be reset as per the request of the user if forgotten, or if the account has been flagged as hacked.

### 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 be accessible through the web.
* The system shall include up-to-date DMV driving policies and regulations.
* The system shall offer available trainers to customers ready for driving sessions.
* The system shall involve user pictures for customer distinction.
* The system shall be able to work online and offline for product owner or administrative staff.
* The system shall be able to handle unique username for identification.
* The system shall validate user credentials when logging in.
* The system shall include schedules to help students decide which available times work best for them.
* The system shall have practice tests and information for the student to study and practice for

their driving test.

* The system shall include individual progress reports for each of the students to highlight their

strengths and weaknesses.

* The system shall include trainer notes and feedback.
* The system shall include updates as it grows with new users.
* The system shall add new/delete/update customer accounts on as needed basis.

### 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’s needs for different users must include personal information of each user to their account. An user friendly design. The different users for this interface will include student drivers, and the staff. More specifically, the staff are the driver trainers, office staff and the Administrators who need to be able to log into the application to go in and make changes and updates to the system when needed. They would also need to make changes to customer profile by deleting profile that are no longer needing the system. Finally, the security team of the system need to be able to log in and make sure there are no bugs in the security part of the system. The security team needs to be able to go in and fix any security issues that come up as the system runs.

### 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?*

Almost everything was addressed but I am making the assumption that each users have access to modern laptop/desktop and up-to-date browsers.

### 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?*

* Some limitations might include that the system will be built for laptop and desktop, not a mobile app.

### 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.*

Timeline

Description automatically generated