# 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 is the client.
* Wants a system to train students for their driving tests through online classes and practice tests.
* Wants a system that allows people to make reservations for driving lessons.

### 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 trying to fix the problem of students failing their drivers tests.
* Wants the system to allow the user to access their data online as well as offline.
* Be able to identify the driver the customer is scheduled to go with and track the cars that are in use.

### 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?*

* Allow users to access a website that allows them to take classes online as well as practice tests.
* Also allows users to make reservations for driving practice.
* Only make it so certain employees can add and remove modules.

## 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?*

* Web-based application. Preferably cloud based.
* System updates whenever DMV has updated their driving tests.
* Fast enough to allow heavy traffic so users don’t run into any loading issues.

#### 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?*

* System should run on Linux to allow for a more secure platform.
* If using the cloud to host the web-based application, the cloud should handle database tools.
* Servers will be handled by the cloud service, ideally will need a large enough server to handle large amounts of traffic.

#### 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?*

* User will register with a unique username required by the system.
* Usernames and passwords will also be case sensitive.
* The system should inform the admin if there are login and registration 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?*

* Allow the admin access to a module that allows usernames to be added/removed/modified without the need to going into the code.
* The system will adapt to updates based on when DriverPass wants the system to be updated. Otherwise, it will be in maintenance mode.

#### 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?*

* A unique username longer than 6 characters will be required for login.
* A case-sensitive password requiring one capital letter, a lower case letter, a number, and a special character.
* The cloud is responsible for secure data exchange.
* To prevent brute force attacks the system will lock out the user with a notification sent to the user.
* 2-factor authentication may be a possibility.
* If users forget their passwords they can use a password recovery tool built into the login screen.

### 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 user credentials when logging in.
* The system shall book reservations for driving training by the user.
* The system shall allow online classes and practice tests.
* The system shall offer three different driving packages.
* The system shall show the driver that the user is paired with.
* The system shall provide specific access based on the person using it.
* The system shall show any comments that the driver left as well as the time for the lessons.
* The system shall show online test progress.
* The system shall show the student information (name, address, city, etc.).

### 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 user interface will show online test progress.
* The user interface will show driver information.
* The user interface will show driver notes including lesson times.
* The user interface will show driver and student photos.
* The user interface will show any special needs for the student.

### 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?*

* There was no budget listed, so the creation of this system may be within DrivePass’s budget.
* There will always be a time where there is heavy traffic so the servers requirement should be adjusted accordingly.

### 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?*

* There are less than four months to design and release this system, so there will be a need to hire more employees.
* Technology should not be an issue as the tools are available.
* Budget was never stated so that should not be a factor.
* The system needs power and internet connection to function.

### 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 picture containing text, screenshot, diagram, software

Description automatically generated