# 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 providing better training for students who are training at their local DMVs
* Client - DrivePass
* DivePass has asked for help to better the driver training. They wants to provide customers online classes/practice tests, and on-the-road training if they wish.

### 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 help lower the amount of people failing the driving test at the DMV by providing students with online training, practice exams, and on the road training online booking/scheduling.
* Accessed over the web where users can access their trainings form any computer or web browser.
* System security for user’s accounts to allow each different user access their own profile with their own trainings.
* Needs to track all trainings, exams, and on the road training bookings, cancellations, and modifications.

### 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?*

* Operating system we’ll use and the languages we’ll be using with it to build the website.
* When this system is completed, the system should be a fully functioning site that matches the client’s needs.
* User data to be accessed from any browser on any device online.
* The fully functional website will allow students to create, cancel and change booking information for the on-the-road driving training.
* Gives employees admin access to allow them to update user profiles if needed and to perform future system updates and improvements.
* It should also allow customers to take online practice exams/training when finished.
* UML diagrams for visualization help with object models and process models.

## 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 will be a web application running on the cloud.
* The system must be quick enough to allow users to access the website without difficulties.
* The system must be updated whenever the client chooses to add new components.

#### 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?*

* It will run on a Linux OS
* The system will use cloud computing and storage to manage all the security and database needs.

#### 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 should be able to create a username and password when first entering the application. The credentials they choose will be case-sensitive. Also, the system should have multifactor authentication to make it more challenging to hack into a user or an account.
* The system should instantly notify the admin of any issues, glitches, or bugs with the website to get it back up as quickly as possible.

#### 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 will let you create changes to users and let you delete users without modifying the code.
* The system will gradually be introduced into platform updates as a requirement comes for more components. When driverpass decides they would like to add new components to the website, platform updates will begin.
* The IT admin will have full access to the system to create any required changes or delete ex-employees who should no longer have admission to the system.

#### 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?*

* Users must have a username and password to log in, and multifactor authentication will be required.
* Cloud storage will be accountable for the data exchange between the client and server.
* The system should disable the account and make them reset their password after four wrong logins to prevent brute-force attacks.
* Suppose a user fails to remember their password. In that case, they will be prompted to provide the email they signed up with when setting up their account, and a password reset link will be sent to that address.

### 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 shallvalidate user login credentials when logging in.
* The system shall schedule driving reservations when created by the user.
* The system shall provide practice exams and courses.
* The system shall display which driver the customer will be paired with.
* The system shall present three distinct driving packages.
* The system shall run quickly and efficiently.
* The system shall deliver consumer access based on the account and user privileges.
* The system shall display the exams and coursework they have completed

### 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 must let the customer schedule driving appointment reservations and take online courses and quizzes.
* The interface must permit driverpass employees to go in and make modifications and edit the system as needed.
* The user should be able to interact with the interface from a mobile, tablet, computer, or any device capable of internet connection.

### 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?*

* We were not given an allotment of funds for the system. Because of this, we are making assumptions that everything we are using to create the system will be within the allocation of funds. That includes using Linux and using cloud computing and storage.
* We also believe we are easily able to obtain all of this technology.

### 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?*

* We were given roughly five months to build this system and were not given a budget.
* We have a significant limitation now: more individuals to build the website. We require more employees to create the website in the five months.
* Due to this, I think it is most reasonable to use an agile method.

### 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 timeline

Description automatically generated