# 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 wants to fill a void in the market by creating a cloud-based system in the form of a website that will help students prepare for their driving tests.
* The website will provide online classes, practice tests, and in person training.

### 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 has recognized that there is an issue with people failing their driving tests.
* They wish to correct this issue by providing online classes, practice tests, and in person training through their website.
* Liam, the owner of DriverPass, needs to be able to access this system from any device, as long as an internet connection is present, and needs to be able to download reports.
* User restrictions need to be implemented for security, with Liam having full access over all accounts.
* The secretary needs access to the system in order to make, change, or cancel reservations that are made by phone. She should also be able to create and edit user profiles.
* Users need to be able to select available packages and create reservations for in person training.
* The system should be able to track these reservations, as well as all of the modifications and cancellations that are made.

### 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?*

* When the system is complete it should allow users to create profiles and enter all their personal information either online or through an agent.
* The user should be able to select from the available packages and access online classes and practice tests
* The system should be able to track the user’s progress and record test scores.
* The user should be able to create, change, and cancel reservations for in person training.
* The completed system should match a student with a car and driver and allow the user to view notes left by the driver.
* The system should only grant access to certain employees in order to make changes within the system.
* The system should record changes made to the system that are accessible to Liam through logs.
* The system should allow users to reset their password if they forget it
* The system should be able to accept notifications from the DMV when updates are made to their rules or policies.

## 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 and run over the cloud.
* The system should be updated any time a notification is received from the DMV with changes in their policies, or when the company decides to add new features.

#### 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?*

* Since the system is cloud based, it should not require any additional databases to support the application.
* With the system being web-based, it should be functional on all platforms.

#### 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 will have the ability to create a case-sensitive username and password when creating their profile. No two users will be allowed to have the same username.
* The system should inform the admin of a problem any time a problem is detected, so it can be fixed quickly.

#### 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?*

* Users can be added, modified, and removed without changing the code.
* IT admin will need unrestricted access to the system in order to make necessary changes and restrict access in the event of termination of an employee.

#### 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?*

* The user will need a unique username and case sensitive password to log in. Two factor authentication should also be implemented to increase security.
* The connection between the client and cloud should be fully encrypted
* If a user should forget their password, they should be given an option to have a reset link sent to their mobile phone or registered email address to reset their password.
* User account should lock after a specified amount of incorrect login attempts to prevent “brute force” hacking, and the user will have to contact customer support to have their account unlocked.

### 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 will allow users to create profiles and enter all of their personal information.
* The system will validate user credentials when logging in.
* The system will allow users to access online classes and tests.
* The system will allow users to select from available packages and register for in person training.
* The system will pair the user with a driver and allow user to view notes left by the driver.
* The system will log user’s progress and test scores.
* The system will track all activity of changes made to user accounts.

### 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 needs to provide different levels of access for different users
* The admin needs to have unrestricted access to the system
* The secretary needs to be able to create user profiles and make changes and reservations
* Users need to be able to create their own profiles online and register for available driving packages, as well as participate in online classes and tests.
* User interfaces will need to be functional on any device that has an internet connection, including mobile devices.

### 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 mentioned in the initial interview with the client, so the development as described is assuming that all of the desired work will be able to be completed within the client’s available budget.
* This development is assuming that the client has all of the necessary technology to support the features of the website, as well as the communication with the DMV to keep the system up to date.

### 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?*

* The production schedule lists deployment in 15 weeks, from the interview and schedule it appears that there are only 5 available people to create the website in less than four months, making both time and resources limitations to development.
* Since there is no given budget, we can only assume that we are limited by what the client is willing to pay for the development of this website.

### 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*