# 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 client, DriverPass, would like to create a system that helps train student drivers for the driving test at their local DMV.

### 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 would like the system to be able to take in new drivers and give training options that include in person and online options.

### 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?*

* The system should be able to take in student information (first and last name, address, phone number, state, etc.) and make reservations for packages provided. Flexibility is needed to add or remove packages as needed. Tracking is also needed for these reservations. Security will include a tiered system that will give access based on different roles. For ease of use, the cloud is the preferred choice. Many pages will need to be built for user interaction, displaying information to the user, and for contacting the company.

## 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 should be web-based in the form of the website over the cloud. A mobile version of the system should also be available. The system should be fast enough to allow users to access the website without any complications. The system should be updated at any point in time the client 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?*

* I think Windows or Linux would be an appropriate platform to run the system on. There should not be any databases required as the cloud should take care of that.

#### 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 individual user will have a username and password that is case-sensitive. Multi-factor authentication can also be used for added security.

#### 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 allow the modification of users without changing code. Since this is going to be a new system, updates will be slowly introduced with each new feature DriverPass wants to add. A designated admin will have full access to the system in order to reset employee passwords or remove employees who should no longer have access.

#### 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 username and password will be required for log in as well as multi-factor authentication if the user opted for it. The data exchange between client and server will be managed by the cloud. After several failed log in attempts, the system should disable the account and notify the admin as well as the user. If a password is forgotten, the user can reset their password from the log in page via their email. A password reset link will be sent to the email used to create their account.

### 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 make and modify reservations that are made by the user.
* The system shall provide online classes and practice tests to the user.
* The system shall show the test progress the user has made.
* The system shall track the driver, time, and car that the customer is paired with.
* The system shall allow different tiers of access based on the user and their privileges.
* The system shall work efficiently with the cloud to be able to access data at any time.
* The system shall be able to keep up to date changes the DMV might make.

### 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 will need to provide the user with information like where and how to make reservations, driver notes, test availability and progress, driver information, etc. The different users for this interface will include the DrivePass employees and the customers. DrivePass employees will need to be able to add or make changes to the system and user accounts. The customers will need to be able to interact with the interface to access the practice information, make reservations, modify personal information like address and telephone number. The user will interact with the system through either mobile or browser via 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?*

* There was no budget given for developing this system. We are also assuming that the technology to develop and run this system is easily available.

### 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 was no budget given for developing this system. Developing the system with a small amount of staff may be a challenge and may take longer than expected depending on what the client wants to modify.

### 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.*

*Chart, waterfall chart

Description automatically generated*