# 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 the DriverPass project is to help drivers pass their drivers tests, as they found some missing links in the market.
* The client is DriverPass and what they would like is for our organization to create a website that will help customers to prepare for their written drivers test and the practical driving tests, with instructors to assist in the driving portion.

### 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 assist them in fixing the area of people failing their written and driving exams.
* Some of the things that DriverPass would like is for the website to provide online learning materials and practice tests.
* DriverPass would also like to schedule drivers to teach the practical portion of the drivers exam.
* They would also like for the administrators to be able to access data from anywhere as long as there is an internet connection. While also making sure there is not redundancy, so if someone has already entered data, if can’t be done twice.
* DriverPass also wants security that levels so that administrators can determine who can access change passwords and other security services.

### 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 completed, customers will have the ability to schedule, change and cancel driving instructors.
* The customers will also be able to take practice tests and access learning materials online.
* The system should also be able to determine who has accessed the system and give them privileges based on their level and permission sets.

## 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 that the web-based application should be hosted on is the cloud.
* The website should also be able to run on various browsers and operating systems.
* The speed should be fast enough to keep customers happy but does not need to be extremely fast.
* They system should update whenever there are changes to the browser settings or there are changes to rules in the DMV or BMV.

#### 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 platform that they system should run on is MacOS, Windows, and Linux.
* The backend should require a database that can hold all the data from the users and clients.
* The database should be invisible to clients minus their data, and visible to the administrators and anyone else who works in the organization and needs access to the data.

#### 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?*

* The system will distinguish between the different users by giving them specific usernames and passwords.
* The username and password will be case sensitive, this will add to the level of security of the password.
* They system should inform the admin of a problem anytime there is an issue that affects the performance of the website, or if the system is prompted by a user to send an issue to the admin.

#### 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?*

* Yes, there can be changes made to a user without modification of the code.
* The system will adapt well to the platform changes, because when changes are made, they developers will be able to adjust as needed to ensure the system works well
* The access the IT admin needs is that they should be able to reset passwords, add, delete and change employee information and be able to enable and disable access to individuals.

#### 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?*

* For a user to log in the will be required to have an valid username and password, that is saved in the database.
* To secure the connection between the client and the server the cloud security will be responsible for that and also making sure the website URL is https.
* To deter from brute force attempts, there accounts should have multifactor authentication and no more than three wrong attempts.
* If the user forgets their password, they will have to submit a forgot password request, where they will be prompted to send username, email, and verify security question. Then a link will be sent for them to reset their password.

### 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 should allow users to make, cancel and change reservations for instructions.
* They system should allow for the client to choose between three different driving packages and choose the best one for them.
* The system should run with no errors.
* The system should allow a verified client to access online learning materials that are associated with their learning package.

### 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.)?*

### 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?*

* One of the items that was not addressed in the system design was how many users to expect, which would determine how many resources to start with or what type of scaling will be necessary.

### 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?*

* One of the limitations is that we have been given a time frame to build the project, but not a budget to work with, and the budget determines the number of resources/people and how quickly the website can be built.
* The type of building approach is a limitation also, due to the timeline and type of website, an agile process would be more effective that waterfall methodology.

### 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 with low confidence