# 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?*

* Client is DriverPass
* Client wants their system to be able to access their data from anywhere online and offline.
* Client feels like there is a void in the current marketplace and wanted to create online training for student drivers with classes and practice exams, along with the ability for in-person 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?*

* Client would like their system to be able to aid and fix the issue with student drivers failing the driving test by being able to provide them with online practice exams, and classes and being able to book in-person, on-the-road training through their system.
* If there is internet access, the client will be able to access the system with their data anywhere.
* Proper security features need to be implemented to grant access to the different users, each user has a certain user profile that can give them access to certain things while the system is being used.
* The system should track all incoming reservations, cancellations that are made, and modifications made, and offer three types of packages to choose from for in-person, on-the-road training.

### 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 fully completed, it should be able to run as a fully functional website that fits the client’s requirements.
* The website should allow customers to take practice tests and classes online.
* Employees will be granted certain access to make changes if needed or to further improve the system.
* To be able to create the system, we should use object models, process models, and UML diagrams to help visualize the system.
* The operating platform and the languages that will be used must be picked out to be able to create the website.

## 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?*

* Since it will be a website, the system must be web-based.
* Users must be able to visit the website without any issues or crashes, thus the system must operate quickly enough.
* When new features are needed, the system should be upgraded.

#### 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?*

* When new features are needed, the system should be upgraded. Any platform should be able to operate the system.
* The system will leverage the cloud for security management, and the back-end databases will be looked after by the cloud.

#### 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?*

* Both usernames and passwords will be used to differentiate between different users. These are delivered to a single user, and input must take case into account. A two-factor authentication function may be available, allowing the user to utilize their phone or email to authenticate they are the ones signing in.
* When a website fails or has a fault, the system must notify the administrator so that the issue may be resolved in a timely manner.

#### 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?*

* Without altering the code, the system will let users go through changes.
* When new features are available for usage, the system will get updates.
* The administrator will have complete access to the system, allowing them to make any necessary adjustments.

#### 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?*

* In addition to a username and password, if two-factor authentication is set, the user must log in.
* The information transfer between the server and client will be handled by the cloud.
* Four occurrences of an invalid password entry should result in account locking.
* In order to obtain a password reset link, users who have forgotten their password need to enter the email address they used to register.

### 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.”*

* When logging in, the system must verify the user's credentials.
* When a user makes a reservation, the system must do so.
* The system will offer online quizzes and lessons.
* The system will display the driver to whom the customer was assigned.
* The system will present the buyer with a variety of bundle alternatives.
* For the user, the system must function smoothly and effectively.
* The system will grant various users varying rights and access based on the accounts they have.
* The system must display to the customer any testing and tasks that have been accomplished.

### 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 must offer the consumer the ability to book driving package reservations, take online lessons, and take exams.
* Employees should be able to modify the interface and make any necessary adjustments to the website.
* The interface should be usable from a variety of electronic devices, such as a phone, tablet, or laptop.

### 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?*

* Since there was no established budget for the system, it is assumed that all materials used in its construction would be paid for by the budget.

### 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?*

* This project has a condensed timeline and no allocated funding.
* We don't have enough workers on this project, therefore we'll need more of them if we want to finish it by the deadline.

### 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