# 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 observed that there is an inadequate amount of tools to assist drivers with passing the driving exam.
* DriverPass wants us to assist them in making a system as a website for students to take practice tests online and schedule on-the-road 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 wants the system to resolve the issue of students failing their driving exam.
* DriverPass would like to achieve this with this system by giving practice tests online, courses, and the option to schedule on-the-road training.
* This system should be able to permit access to data from any location with an internet connection.
* This system should also be able to have proper security features that will give access to users.
* This system should be able to track all changes, reservations, cancellations, and present three packages that you can choose for on-the-road training.
* Several other components are necessary for the system such as the ability to control numerous accounts, ability for client to take walk-ins and appointments, drivers that give students lessons, etc.

### 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?*

* After the completion of this system, the website should be completely functional, allowing clients to reserve, cancel, and change on-the-road training.
* It should enable the client to take practice exams and online courses as well.
* This system should also be able to allow access to employees only for making modifications or enhancements to the system.
* To assist in creating the system, we must utilize UML diagrams, object models, and process models to assist in visualizing the system.
* We need to choose programming languages and an operating platform for making this website.
* Some measurable tasks necessary are build use case diagrams, collect requirements, build activity diagrams for every use case, create class diagram and interface, test/deliver system, etc.

## 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?*

* System must update when user would like to add new features.
* System must be quick to permit user access to website with no difficulties.
* System must run in a web-based environment as a website over cloud.

#### 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?*

* System needs to run on a Linux platform.
* System utilizes the cloud in order to handle security measures as well as manage databases needed for back end.

#### 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?*

* Every user must have the ability to create login credentials when viewing the website for the first time.
* System needs to notify about issues or any other errors with the website to the administrator instantly so that it can be resolved immediately.

#### 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?*

* System lets you remove and make changes to the user without modifications to the code.
* System will gradually be introduced to platform updates when a need arises for additional features.
* IT administrator has entire access to the system to be able to make any required modifications or get rid of past workers who shouldn’t have any 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?*

* Login credentials and multi-factor authentication is all necessary for the user to log in.
* The cloud is in charge of exchanging data between the server and user.
* System must deactivate account after 4 wrong login attempts to block any brute-force attacks.
* If the user fails to remember their password, they would have to enter the email associated with their account, and a link to change their password will be sent to that email.

### 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 authenticate login credentials when a user attempts to log in.
* The system shall be able to book reservations made by the client.
* The system shall give classes and practice exams.
* The system shall display to the driver the matched client.
* The system shall present 3 driving packages.
* The system shall perform quick and efficiently.
* The system shall give custom access based of off client’s rights.
* The system shall display customer’s exams and work finished.

### 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.)?*

* Interface needs to give client the choice of creating reservations for online courses, exams, and driving packages.
* Interface has to let DriverPass workers make modifications and system updates when necessary.
* User needs to have the ability to interact with the interface from any device with an internet connection such as a tablet, smartphone, computer, 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?*

* A budget was not provided for the system and because of this, we are assuming that everything that is being used to make this system is within the budget like the cloud and Linux platform.
* It is also assumed that all the technology can be easily accessed.

### 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 is only 5 months left to create this system and no budget is provided.
* I believe that an important limitation we currently possess is more employees to create the website. We require more workers to make this website in the given time frame.
* With that being said, I think that an agile method would work best in this situation.

### 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 screenshot of a computer

Description automatically generated with medium confidence