# 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 is the client.
* DriverPass has decided they would like us to help them fill a void in the market and create training that will provide students with online classes/practice exams and the ability for 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 would like their system to help aid and fix the problem of people failing the driving test by providing online practice exams, classes, and the ability to book on the road training through their system.
* As long as you have access to an internet connection, the system should allow you to access the data from anywhere.
* The system also needs to have proper security features that grant access to different users, in which each user has a certain user profile that gives them access to do certain things while using the system.
* The system should track all reservations, cancelations, modifications, and offer three different packages to choose from for 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 this system is completed, the system should be a fully functional website that fits the client’s requirements.
* The fully functional and complete website that allows customers to book, modify, and cancel on the road driver training.
* When the system is complete it should also allow customers to take practice tests, and classes online.
* The system should also only grant certain access to certain employees in order to make changes if needed be, or to further improve the system.
* In order to help create the system, we should use object models, process models, and UML diagrams in order to help visualize the system.
* We must pick an operating platform, and the languages we will be using 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?*

* This system needs to run in the form of a website over the cloud.
* The system should run fast enough to run without any complications or delay for users.
* The system should be updated at any point in time when the client decides to add/remove any 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?*

* The platform that the system should run on is Linux.
* The cloud will be used to manage any and all security, as well as any databases required on the 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?*

* To distinguish between different users, each user will be able to create a username and password that is specific to their liking, when first accessing the website.
* The username/password requirement will be case sensitive.
* The system will have a multi-factor authentication for security purposes.
* A notification should be sent to admin immediately if there are any issues such as problems, bugs, or glitches within the website to problems can be addressed accordingly and the system can be fixed 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?*

* Changes can be made to the user(add/remove/modify) without changing the overall code.
* The system will slowly adapt to platform updates, as needs come up for more features. Any time DriverPass decides they want a new feature to be added, platform updates will begin.
* The IT will have full access to the system so that any changes can be made, or any former employees can be removed so that they 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?*

* For the user to log in, a username and password will be required, along with multifactor authentication.
* For the data exchange between the client and server, the cloud will be responsible.
* If there is a “brute force” hacking attempt, the system will disable the account after four incorrect log in attempts.
* If the user forgets their password, they will be prompted to enter the email that was used to originally set up the account, in which a password reset link will be emailed to that email address so the user can 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 shall validate any and all user credentials in the log in process.
* The system shall book reservations that the user has selected.
* The system shall provide practice tests and classes.
* The system shall display the driver that the customer is paired with.
* The system shall offer three different driving packages.
* The system shall run fast and efficiently.
* The system shall provide custom access based on user types and their privilege’s.
* The system shall show any work that has already been completed by the user such as tests.

### 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 must provide the customers the options to make reservations for driving appointment packages and take online classes/tests.
* The interface must allow DriverPass employees to login and make changes, as well as update the system as needed.
* The user can interact with the interface from either a mobile phone, laptop, computer, or any device that has an 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?*

* No budget was given for this system. Given, we can make the assumption that all that will be required will be on a budget. This includes using the Linux environment and using the Cloud.
* We will also assume that we have easy access to all of the technology that is needed.

### 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 limitations I see in my system design is that we have five months to build this system and were not given any type of budget.
* With such time restraints, I think we need more hands-on deck to assist in building the website to meet the deadline of five months.
* Given all information, it would serve us best to use an agile approach.

### 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, timeline

Description automatically generated