# 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?*

* Driver pass wants a system to the will provide online driver training and practice test as well as in person on the road training to students that plan to take their driving test at the 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?*

* Liam is hoping to take advantage of a void in the market when it comes to training students for the driving test at their local department of motor vehicles (DMV).

### 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?*

* They want a system that will allow them to provide online training and testing as well in person testing, the other thing they want is the ability to make appointments online as well as manage them, and finally they would like a way to view data both online and offline.

## 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?*

* Some of the requirements we need for this step are the system we create should a web based, we should ensure they system is fast enough for there to not be any lags or long load times to access our content, and finally we should be able to update the system we create at any time our customers want 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?*

* The platform that our system should run on is Linux.
* Our system is using the cloud to manage all the security. It will also take care of the databases required for 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?*

* All our users should be able to create a username and a password when they first access the website. The input they make should be case sensitive, another thing our system should include is multiple ways to use authentication to make our service more difficult to hack into. The system should inform the admin of any bugs, glitches, or any other problems for the system to be back in a working state.

#### 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 should allow you to make modifications to users and allow you to remove some users without changing the code.
* The system will slowly be introduced into platform updates as a need comes for more features. When driver pass decides they will add new features to the website, platform updates will begin.
* The IT admin will have full access to the system to make any changes necessary or remove former employees who no longer need 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?*

* The users will be required to login with a username and a password as well as have a two-factor authentication for the system to be more hack resistant.
* The cloud will be responsible for the data exchange between the client and the server.
* The system should have a way to disable the account after a set number of incorrect logins to prevent brute force attacks to get into that account.
* The system will have a way for users to reset their passwords if they had forgotten it, this will be accomplished by having the user enter in their email they made their account with and will send them a link to that email 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 shall validate user credentials when logging in.
* The system shall book reservations when made by the user.
* The system shall provide practice tests and classes.
* The system shall show the driver 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 the user and their privileges.
* The system shall show the tests and work the user has already completed.

### 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 customer the option to make reservations for the driving appointment packages as well as take online classes and tests.
* The interface must allow driver pass employees to go and make changes and update the system as it is needed.
* The users should be restricted on which device can access the service, the only requirement to access the site is to have a working 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 stated budget for this project so whatever we do we will assume that it will be in budget, and with that we plan to use the cloud and a Linux based operating system.
* We also need to assume that anything we need will be in stock and able to be purchased and reach us in a decent time to complete the project before our deadlines.

### 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?*

* To start off we were never given any specific budget, but we will have roughly five months to complete this project. With our only defined employee (that being us) I believe the main issue is the need for more employees for us to complete this project in the allotted time. With this I believe that the agile approach would help us manage more employees as well as the overall progress of our project.

### 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 picture containing text, screenshot, number

Description automatically generated