# 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, a driver’s training program to help student drivers pass their local DMV test with online classes and practice test including an 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 should have practice exams that can be taken on any device as long as it’s connected to the internet.
* Student will be able to make reservations online, over the phone, or in person. The reservation must be able to be modified or canceled and tracked.

### 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 completed DriverPass should be a functional website that allows students depending on which package purchase allows them to take online test and schedule in person practice driving test with an instructor.

## 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?*

* DriverPass is a web based website that runs on the cloud and should be updated when new features are added or if DMV rules change.

#### 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?*

* DriverPass would run the best on Linux and it would run on the cloud that would manage database required and all security issues.

#### 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?*

* Each user would need to create an account with a username and password which the username would need to be unique or even an email so an individual can only create one account.
* The program will have a forget password option for users who forgotten password.

#### 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?*

* DriverPass will have different level admins that can modify different things as Liam and Ian would have full 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 cloud service would handle security and a forgot password option will be included with DriverPass.
* The user would be asked to enter email for the account the password was lost and an email would be sent to the email for a link to reset that users 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 provide practice test and online classes.
* The system shall make reservations for in person practice driving test.
* The system shall allow the user to manage their reservations online.
* The system shall allow the user to enter pickup and drop-off location.
* The system shall show which driver is matched with which student.
* The system shall offer different packages for purchase.
* The system shall run on the clous efficiently.

### 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 work on any web browser on a computer, phone, and table.
* The interface must allow the admins to make changes to users information or reservations.

### 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?*

* The program the client wants to use as I recommended Linux, but they may prefer another.

### 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 team will only have four months to plan, develop, test, and deliver the program.
* No talking of budget was mentioned which would dictate the size of the team for the project and time requirements.

### Chart, timeline, waterfall chart Description automatically generatedGantt Chart