# 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?*

* The purpose of this project is to help student drivers prepare for their driving test.
* The client “DriverPass” is ran by Liam the owner and Ian the IT officer.
* Make an interface for drivers to sign up for driver training
* Allow students to study and take practice test online.
* Allow student to reserve driving spots online.
* Allow student to see who their driving teacher will be and the car they will use.
* Allow students to make, modify and cancel appointment as necessary.

### 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 to bridge the gap between learning driving from home and passing the DMV test.
* To many driver are failing the DMV test.
* Practice taking the test.
* Practice taking the driving test.

### 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?*

* Once completed students should be able to practice test online.
* Should be able to study class material online.
* Should be able to sign up for classes.
* Should be able to upgrade packages.
* Should be able to sign up for driving times.
* Should see who they are driving with.
* Should see what car they are driving in.

## 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 needs to be web-based.
* This web-site needs to load in less than 27 seconds.
* This system needs to update every time a user makes a change.
* This system need to update once a month to keep the information relevant.

#### 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?*

* This platform needs to run on Windows, Mac, and Linux.
* There will be database for user information.
* There will be a database for driver information.
* There will be a database for payment information.
* There will be a database for package information.
* There will be a database for course work.

#### 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 needs a unique identifier number.
* Select user input should be case-sensitive.
* The system should immediately let the user know that something was entered incorrectly.

#### 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 user database will allow modifications with out the need of updating code.
* Because the system will be web based, the updates to the platform will be manageable.
* The IT admin will need unlimited access to everything on the site except the payment information.

#### 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?*

* Log in will be 2 factor authentication.
* The client and server connection will use a Transport Layer Security protocol.
* In the event of a brute force attempt, the account will be locked down and they will have to answer security questions.
* If the password is forgotten they will be redirected to and secure page to reset the 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 have a sign-up page.
* The system shall have a sign in page.
* The system shall validate user credentials upon logging in.
* They system shall Validate user credentials upon selecting the area they wish to use.

### 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 needs to work on a computer and mobile device.
* The interface needs to show online test progress.
* The interface needs to show user information.
* The interface needs to show the driver notes.
* The interface needs to show any special needs.
* The interface will need buttons to travel through the site.
* The interface will need a home and menu button that is on every page.

### 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 are no colors or founts discussed.
* There is a general assumption that most users will not need a guide to find their way around the website.

### 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?*

* [Insert text]

### 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 waterfall chart

Description automatically generated