# 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 client is DriverPass.
* To create a website that will offer students with online tools practice exams, and the ability to book a practice drive to help with their training when driving on the road.
* To help beginner drivers pass their driving test by allowing them to have access to more tools that will help the students pass the test and feel confident about driving on their own after passing the test.

### 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?*

* They would like to prove through the system online practice exams, classes, and the ability to book practice driving online.
* They would like their website to help benefit the kids and fix the problem that there are too many kids that are failing their driving test.
* They would like the system to allow students to be able to access their data from anywhere that allows students to gain access to WIFI connection.

### 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 should have a fully functioning website that allows their students to book, modify, and cancel their practice driving, practice tests, and their classes online.
* The project should have operating platform that can perform with different categories of language profiles that can help different types of students when using the website to learn.

## 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?*

* They should have a web-based system.
* They should have monthly system updates and reminders.
* They should have a modern web application of the website.
* They should have a fast system without any kind of complications when accessing the website.

#### 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 should run on most web and mobile browsers.
* The back end should have a database that stores system logs and data.
* The back end should manage the security and the database requirements.

#### 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?*

* Having the system inform the user of any glitches or bugs.

#### Having the input as a case-sensitive password.

* Having the system detect of any critical errors.
* Having a daily report of all errors.

#### 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?*

* Always having the web application up to date.
* Always having the admin to have access to the database.
* Always having the system make modifications to the users without replacing the code.

#### 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?*

* Requiring the user to have a username and password for login.
* Requiring the user gets locked out after having four failed repeated attempts of logins.
* Requiring the user to have an email for sending temporary passwords when user gets locked out or forgets 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 student identifications when logging in.
* The system shall book appointments when made by the student.
* The system shall provide practice exams, driving and online classes.
* The system shall provide all open available appointment times for the upcoming week.
* The system shall lock out the student after having four failed repeated attempts of logins.
* The system shall send an email with temporary password when locked out or forgotten password.

### 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.)?*

* Students will need to have an interface that can provide students with the choice to make online appointments for practice driving, practice exams and taking classes.
* Students will need to have access to a computer or a mobile browser.
* Students will need to have access to one of the interfaces from a laptop, desktop, or mobile devices that is capable with an internet connection and a modern web or mobile browser.

### 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?*

* Assuming most of the students have access to a modern computer or mobile device.
* Assuming most of the students have access to a modern web or a mobile browser.
* Assuming most of the students have access to the internet.
* Assuming most of the students have an email.

### 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?*

* Having all employees use an agile approach for the project.
* Having a time frame of 15 weeks to complete the project.
* Having more individuals to help with building the website.
* Having all the major web browsers be compatible.
* Having no budget for the 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 screenshot of a computer

Description automatically generated with medium confidence