# 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 aims to address the need for improved driver training to increase the pass rate for driving tests.

### 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 their system to help aid/fix the issue of students failing the driving test. They’d like to provide online exams, classes, and the option to book on 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?*

* After everything is done, there should be a fully functional website that allows users to create account, schedule driving lessons, and be able to view, modify, and cancel their reservations.

## 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?*

The system should run on the web, preferably via the cloud. A user interface should resemble the sketch provided, with test progress and driver notes. The system should be updated at any point when the client decides to add any 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?*

* Lunix.

#### 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?*

* The user can register their account with a specific username and password that will be completely unique. Upon login, the system will verify the users credentials and should be case sensitive. It should inform the admin of a problem with error logging in, automated alerts (say if someone tries to many times and it errors), activity reports, and with user feedback.

#### 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 the user to add/remove/modify without changing 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?*

* [Insert text]

### 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 allow users to register by providing their personal information.

The system shall validate and store user credentials (username and password) securely during registration.

The system shall enable users to schedule driving lessons by selecting the day, time, and preferred instructor.

The system shall allow users to view, modify, or cancel their reservations online

The system shall offer three different driving packages

The system shall provide custom access based on the user and their privileges/packages

The system shall show the tests and the work the user has 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.)?*

**Admin/User Management:**

Users: Administrators (Liam and IT admin)

* Add, remove, and modify user accounts.
* Assign or update user roles and permissions.
* Reset user passwords.
* Monitor system activities and generate reports.

**Customer Registration and Scheduling:**

Users: Customers (students)

* Create a new user account.
* Provide personal info
* Select a driving lesson package.
* Schedule driving lessons.
* Reset passwords if forgotten.

### 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 mention of a budget, so there is one thing. I didn’t specifically explain about payment processing, user authentication methods, or how the system with handle scaling. Some assumptions I have about users and technology:
  + Internet connection
  + Device availability
  + User proficiency

### 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?*

* Like I have said, no budget was mentioned. We have five months to build the system. A limitation would include the amount of people will work on the website and the system design does not extensively address scalability.

### 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.*

[Insert chart]