# 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?*

* Users of the system: Liam(owner), Ian(IT), Secretary, Customers and students.
* Online platform for scheduling driving lessons, taking practice test, and managing driver training services. Platform must also allow staff to track activity, manage users, and access data securely from any device.

### 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?*

* Customers must be able to schedule lessons, take online classes, and track their progress. Goal is to have the driver improve and reduce DMV failure rate. Components of this include, user accounts, scheduling, online courses, reporting, and secure access.

### 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?*

* System must allow users to register an account, schedule lessons, take online test, and track progress.
* Staff must be able to manage users, appointments, and reports.
* Measurable tasks include: registration, lesson booking, test tracking, password recovery, and activity tracking.

## 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?*

* System needs to be accessible from mobile and computer devices. Page must load in under 2 seconds during normal traffic. Updates should occur regularly to address performance issues.

#### 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 system should run on all major OS’s including mobile OS’s. The backend will require storage for user data, appointments, test results, and system logs. In this case in the form of a cloud database

#### 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?*

* Users will have unique usernames and role-based access. Inputs will be case-sensitive. Admins should be alerted of issues such as, failed login attempts, failed transactions, and scheduling conflicts.

#### 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?*

* User accounts should be managed through the system rather than needing to change code. The system will be cloud based, this will help handle regular updates. The IT admin will need full access to manage users and reset passwords.

#### 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?*

* Users must enter a username and password. Data will be encrypted with HTTPS. After too many failed login attempts accounts will be temporarily locked and IT will be flagged, Users can reset password to gain access immediately.

### 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 allow customers to register and manage their profiles.
* The system shall allow customers to schedule, modify, and cancel driving lesson appointments.
* The system shall track and display customer test progress and scores.
* The system shall allow staff to input and manage student and lesson information.
* The system shall assign drivers and cars to scheduled lessons.
* The system shall generate reports showing activity history and test performance.
* The system shall allow admins to reset passwords and manage user access.

### 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.)?*

* Interface will be user friendly, responsive, and web based for mobile and desktop devices. The different users include: customers, staff, IT, and the owner.
* customers will schedule lessons, take tests, and view progress.
* Staff will manage registrations and appointments. IT admin will manage users and settings.

### 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?*

* We will assume users have internet connected devices. We assume the system is cloud bases and secure with the ability to be backed up.

### 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?*

* Budget and time constraints may lead to the app having less features during the initial release.

### 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.*

*NEXT PAGE*

