# CS 255 Business Requirements Document Template

## 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 provide a comprehensive system for driver training, including online classes, practice tests, and on-the-road training.
* The client, Liam, envisions a system that facilitates remote data access, online/offline functionality, and robust security measures.

### 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 the system to handle online classes, practice tests, and driving lesson reservations.
* Components include online interfaces, data storage, user authentication, and interfaces for customers, IT personnel, and secretaries.

### 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?*

* Implement a system that allows customers to access online classes, practice tests, and schedule driving lessons.
* Enable Liam and IT personnel to access data remotely for management and maintenance purposes.

## 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 various environments, including web-based and mobile platforms.
* Regular updates should occur to ensure the system's content is current and aligned with DMV regulations.

#### 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 both web and mobile platforms.
* A reliable database is necessary to support the application.

#### 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?*

* User identification should be case-sensitive.
* The system should promptly notify the admin of any issues.

#### 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 user modifications without changing the code.
* It needs to adapt to platform updates seamlessly.

#### 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 log in with secure credentials.
* Data exchange between the client and server should be encrypted.
* Brute force hacking attempts should result in account lockdown.
* A password reset mechanism should be in place.

### 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 during login.
* It shall allow customers to schedule driving lessons online or through the secretary.
* The system shall track reservations, identifying the driver, time, and car.
* Online progress tracking for tests, including status, time taken, score, and completion status.

### 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 should run on web and mobile platforms.
* Different interfaces for customers, IT personnel, and secretaries with role-specific functionalities.

### 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?*

* Users have access to the internet.
* Users possess basic computer skills for online interaction.
* IT personnel are responsible for system maintenance.

### 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?*

* Limited budget and resources for system development.
* Initial focus on core features; future enhancements may require developer intervention.

### 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 gantt chart

Description automatically generated