# CS 255 Business Requirements Document

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## 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 develop a comprehensive system for DriverPass, a company dedicated to improving driver training and increasing the success rate of driving tests.
* Client: DriverPass aims to offer students online practice exams and on-the-road training to better prepare them for driving tests. The desired system should enable these services while providing an easy-to-use platform for clients and internal staff.
* System Functionality: The system should support online access to data, appointment scheduling, practice exams, user role management, and data security.

### 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?*

* Problem to Fix: Many people fail their driving tests due to inadequate preparation and a lack of accessible training options that offer theoretical and practical learning experiences.
* Solution Offered: DriverPass intends to offer a blended approach to online classes, practice exams, and on-the-road training sessions. The system should facilitate online scheduling, user account management, progress tracking, and secure handling of sensitive data.

### 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?*

* **Objective 1:** The system should allow customers to create, modify, and cancel driving lesson appointments online or through the office staff.
* **Objective 2:** Provide a secure platform for customers to access online practice exams, track their progress, and view their results.
* **Objective 3:** Ensure data can be accessed from multiple devices (computers and mobile devices) while preventing data redundancy and consistency.
* **Objective 4:** Offer comprehensive user management capabilities with different access levels for the boss, IT officer, secretary, and customers, ensuring secure access to relevant data.
* **Objective 5:** Maintain up-to-date compliance with DMV requirements by connecting to their database and receiving notifications of any changes in rules or practice questions.
* **Objective 6:** Provide robust tracking and reporting features to identify user activity, such as making, canceling, or modifying 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?*

* [Insert text]

#### 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?*

* [Insert text]

#### 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?*

* [Insert text]

#### 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?*

* [Insert text]

#### 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.”*

* [Insert text]

### 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.)?*

* [Insert text]

### 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?*

* [Insert text]

### 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.*

[Insert chart]