# CS 255 Business Requirements Document

## 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?*

* Develop a system that is allows the company to offer online driver training, practice tests, and on road student driver training. This is to be used as a way for students to book lessons and track their progress while accessing both on and offline materials that they may need. This will also help the company manage students, it’s instructors, their training packages, and payment.

### 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 want their system to be a more effective tool for students to use to be able to pass their driving tests because the current system being used is inadequate and results in too many failures. The system will support online lessons and practice tests, handle reservations and be able to integrate with the DMV for any updates.

### 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?*

* Having the user be able to reserve, cancel, or change their driving lessons online.
* Track the students progress through exams and practice tests.
* Make it so the system can always be accessed whether on or offline.
* Makes sure it’s secure for student and company data.
* Gives administrators the ability to manage user access and be able to reset login information.

## 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 needs to be able to handle on and offline access and be able to sync data when it is connected to the internet. It also needs to be able to load quickly and be accessible from any device.

#### 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 needs to be web based and must be compatible with all browsers and mobile platforms.

#### 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 system needs to be able to accurately track and report user activities and be able to maintain a recorded history of events for accountability.

#### 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 needs to allow administrators to alter lesson packages without changing other system functions. It also needs to be flexible enough so future changes can be added without a problem.

#### 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?*

* The system needs to make sure all login data is secure and transmitted safely using encryption. Users should be able to reset passwords securely and the system should prevent unauthorized access and make sure that only authorized people can perform sensitive actions.

### 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 needs to allow users to register and log in with their information
* Needs to allow users to book their own appointments and have the ability to alter their own.
* Needs to allow tracking of user progress in online exams
* Should allow admins the ability to manage user roles and be able to reset login information

### 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 needs to be user friendly and be able to be accessed by both mobile and web browsers. It should give the users the ability to view lesson schedules and allow them to track their progress and make and change reservations. Admins should have access to data management and other reporting features.

### 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?*

* The users will have access to the internet and will know how to work computers or their mobile devices.

### 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?*

* Time and budget can affect which features will be available in 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.*

A graph of a bar chart

AI-generated content may be incorrect.