# CS 255 Business Requirements Document Template

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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 clients for this project are DriverPass. Liam, the owner of DriverPass, believes there is a market for training students for the drivers test at their local Department of Motor Vehicles (DMV). The purpose of the project is to create an online system where users can take online classes and practice tests to prepare for their drivers test.

### 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?*

* Due to the number of students who are failing their drivers test, DriverPass wishes to provide training to these students.
* The system will give customers the opportunity to take online classes and complete practice tests.
* The company will also provide on-the-road training through this system for customers who choose specific training packages.

### 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?*

* Users can register, modify, and cancel appointments.
* Users of the system should be able to reset passwords.
* The owner of the system should be able to track account activity and manage permissions.
* The system should be able to connect to the DMV for updates to new rules or policies.
* Users can take online practice tests.
* Customers can pick from 3 distinct driving packages.
* The owner can add and remove packages.
* There should be contact information for the DMV available.
* The system should be run on the cloud.
* The online interface should show information such as the test progress, Account information, drivers notes, special needs, driver photo, and student photo.

## 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 be a web-based application that can be accessed from anywhere.
* The system should be accessible from mobile devices.
* The system should be connected to the DMV and run updates whenever there are new rules and policy changes.

#### 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 be able to run on various operating systems such as Windows, Mac, and Linux.
* The UI interface should be user-friendly and compatible with any web browser.

#### 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 different users will have different roles with access control.
* Each customer will have regular access to the system.
* The manager will have the admin role that grants full access over all accounts.
* The manager will be notified of any changes made to the system such as who made a reservation, who canceled it, and who modified it last.

#### 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?*

* Users cannot update or modify data unless they are online.
* The IT admin should also have the admin role for modifying and updating the system.

#### 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?*

* When a user makes an account, they are required to contact the secretary and give their first name, last name, address, phone number, state, and their credit card number, expiration date, and security code.
* The user will be required to enter a username and password when logging into the site.
* If there is a “brute force” hacking attempt, the IT admin should be able to temporarily deny all access to the account until the issue is resolved.
* If the user forgets their password, they should be able to request a new password.

### 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 make, cancel, and modify reservations for driving lessons.
* The system shall assign a driver to a customer.
* The system shall offer three driving session packages.
* The system shall remove and add new packages.
* The system shall reset passwords.
* The system shall show users their online test progress.

### 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 user will need to be able to see information such as their online test progress, personal information (first name, last name, address, city, state, zip code, phone number, email address, etc.), Driver notes, special needs information, driver photo, and student phone all on their profile screen.
* The company logo should be placed at the top center of the screen. Clicking on the logo will take the user to the company home screen.
* The online test progress section should show what tests are in progress and which ones the customer has completed. These will be displayed as:
* Test name
* Test taken
* Score
* Status
* The status will be displayed as either:
* Not taken
* In progress
* Failed
* Passed
* The Driver Notes will display information such as:
* Lesson Time
* Start Hour
* End Hour
* Driver Comments

### 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?*

* One assumption I am making is that the IT admin will have the same level of control over accounts as the boss of the company with the ability to reset passwords and update information.
* I am making an assumption that users will be able to update their own personal information on the site without going through the secretary.
* I am making an assumption that users will have a consistent profile with login credentials that protects their information.
* Users will be able to smoothly navigate the website without confusion.

### 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?*

* I believe that there will be potential limitations with accessibility. The system should be accessible for those with disabilities but there is limited knowledge on how DriverPass will handle offering services to those with disabilities.
* Liam and the secretary will need to be trained in how to use the system, which will require time and resources.
* There is no mention of a budget which could cause issues with the costs needed to develop the project and its features.

### 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.*

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