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# 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?*

* The purpose of this project is to create a comprehensive system for DriverPass to help students better prepare for their driving tests through online classes, practice tests, and on-the-road training sessions

### 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 aims to fill the market gap in driver training. The new system will provide online practice exams and manage on-the-road training sessions, along with reservations for these sessions. It will facilitate data access for the company owner and IT officer, support different user roles, and ensure data security and tracking.

### 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?*

* The system should allow customers to register, schedule, and manage driving lessons.
* It should track customer progress on online tests.
* The system should allow different user roles with specific access rights.
* It should enable the company to manage training packages and monitor user activity.
* The interface should be user-friendly and accessible via web and mobile devices.

## 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 a web-based platform.
* It should ensure quick response times, with a target of under 2 seconds for page loads.
* Updates to the system should be performed monthly to incorporate the latest DMV guidelines.

#### 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 must be compatible with major operating systems like Windows, macOS, Linux, and mobile platforms (iOS and Android).
* The website needs to be responsive to different user screen sizes.
* The website needs to run on all major web browsers.
* It should use a robust database like MySQL or PostgreSQL to handle data management.

#### 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 precise, using unique identifiers for each user.
* The system should be case-sensitive where necessary, especially for passwords.
* Admins should be notified immediately of any system errors or security breaches.
* If a user inputs there credentials multiple times with failure admin needs to be alerted.

#### 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 for user management without the need for code changes.
* It should adapt seamlessly to platform updates.
* IT admins should have full access to manage user roles and rights.

#### 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 a username and password.
* Secure connections (HTTPS) should be used for data exchange.
* Implement measures to lock accounts after several failed login attempts.
* Provide a self-service password reset option for users.

### 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 upon login.
* The system shall allow customers to register and manage their profiles.
* The system shall enable customers to schedule, modify, and cancel driving lessons.
* The system shall track and display online test progress.
* The system shall allow drivers to input notes about lessons.
* The system shall generate reports for tracking user activity.
* The system shall manage different training packages and their availability.

### 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 be web-based and accessible on mobile devices.
* Different users (owner, IT officer, secretary, customer) should have specific dashboards.
* Customers should be able to view and manage their test progress and lesson schedules.
* The interface should include sections for entering personal information, viewing driver and student photos, and noting special needs.

### 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 and a device capable of running modern web browsers.
* Users are familiar with basic computer and internet operations.
* The system will handle a moderate number of users initially, scaling as needed.

### 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 constraints may limit the initial features and functionalities.
* Time constraints may necessitate a phased approach to implementing all desired features.
* The system will require regular maintenance and updates to ensure compliance with DMV changes.

### 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]

A calendar with different colors

Description automatically generated with medium confidence