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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 main purpose of this project is for the client DrivePass to provide better training for future drivers.
* This system will allow the users to take practice exams, scheduling, and payments. It will also allow the DrivePass employees to be able to access the user4 data and obtain the schedules for future reservations.

### 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 high failure rate DrivePass wants to create a website that helps people practice for the exam and pass without issue.
* To achieve this goal, they want to add practice exams and offer online classes that help prepare the students to get familiar with the exams that the DMV issues.
* This would also be a cloud-based system so that the website can be accessed from any device anywhere in the world.

### 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 needs to be able to run on PC and MC computers.
* Customers but be able to create accounts that can store name, date of birth, address, phone number, payment information, and pick up and drop off locations.
* The system needs to have some sort of scheduling where the customer can determine when they want to take their driving tests at the DMV.
* Must be able to connect to the DMV and have the practice tests be based on their material.
* Have a fast enough system to stream videos of high enough quality.
* Let’s DrivePass employees have access to the customer information and pair customers with driving instructors.
* Create roles and assign tasks for DrivePass employees.

## 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?*

* DrivePass prefers a cloud-based system.
* The system should have regularly scheduled updates to meet its needs.
* Load videos of a high enough quality that is acceptable for the users to view.
* Can run on PC, Mac, and is available to all smartphones all over the world.

#### 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 web browser will be HTML by default while the mobile application can be operated on iOS and Android.
* The back end will require a database to store user and system information while it also requires a web server to process and manage requests and responses.

#### 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?*

* Users and employees will each have a unique login and password to access the system. They will both have different environments.
* Username and passwords will be case sensitive.

#### 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?*

* IT will have access to the system and can update and maintain it daily.
* Changes within the system can be made without a code such as modifying and deleting information.

#### 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?*

* Passwords must be required for users and staff.
* Forgot password will send a code to the verified email that the user has in the system.
* The system will reset passwords after the user has 5 failed attempts.
* 2-Step Authentication can be implemented as an added layer or security for the user.

### 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 suer credentials when logging in.
* The system shall allow users to reset passwords.
* The system shall implement a 2-Step verification for added security.
* The system shall let the user4 access the system from anywhere in the world on any type of platform.
* The system shall track user progress of testing.
* The system shall be able to store the user’s information in the system such as name, address, and payment information.
* The system shall show which packages are available to the custome.
* The system shall connect to the DMV and be updated with its information.
* The system shall be able to let the user make online payments.
* The system shall be able to track cars that are in use by the employees.

### 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 be able to have access through any type of website or mobile application.
* Different accounts will have access to the system such as users and employees.
* When customers login to the system they should be able to see such functions as login/register, home page, user information, payment information, test progress, scheduling, and various online tools such as practice exams and learning modules.
* When employee’s login they will have access to customer information and the packages they have selected, customers that are paired with drivers and their scheduled dates and times, reset passwords, remove/add employees, and update the information from the DMV.

### 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 system 24/7 when they have an internet connection.
* All users will be able to navigate the system and understand its functionality.
* Customers and drivers will be able to make it to their scheduled tests.
* The layout of the user interface is not final and could change at a future date.

### 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?*

* DrivePass is limited to a certain number of cars and drivers and the cars must be maintained on a regular basis.
* Customer purchases will be limited due to the lack of cars available.
* The budget is unknown so this project may go over and will be re-revaluated.
* Internet connection at the user end may slow down the functionality of the system.

### 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