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| SNHU- CS255 |
| Business Requirements |
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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?*

* DriverPass project: Creating online classes and practice tests to train student drivers before their driving test.
* Liam wants to be able to access his data from anywhere, online and offline

### 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?*

* Bridge the gap between training student drivers and taking driving tests.

### 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?*

* Liam wants to be able to access his data from anywhere online and offline
* Liam wants to be able to access his data from his mobile device
* Liam wants to be able to download the data

## 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?*

* This is a web-based project that allows the user/customer of the product to access the content online.
* Will need to run the product off a cloud provider like AWS or something similar.

#### 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 backend requires a database to collect user data.
* The platform of the OS was specified so I suggest we use Linux so we can get it to work on Mac and Windows systems.

#### 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 will assign a unique ID number to each user.
* Errors will be reported to admin and the access of an account will be suspended until admin fixes it.

#### 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 IT admin needs complete access to customer accounts and certain level of employer accounts to be able to reset passwords and log in. The owner Admin needs access to everything.
* The changes that can be made are deletion of user accounts and adding user accounts without needing to change the code. In this case we will implement it into the initial design and construction of the project.

#### 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 client will provide their own security IT teams and personnel.
* The Admin owner wants full access to accounts so they cand delete accounts and control access.

### 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 will validate user credentials when logging in.
* The system will have and input prompt for users to enter their information to schedule appointments.
* The system shall allow the admin to download and access the project/application’s data.
* The system shall prompt users to register appointments via phone call.

### 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 UI is based on opening a web browser.
* The UI should have different sections for information. Each section is displayed as a window/box on the browser.
* The Sections displayed will have the following displayed: Company Logo, Online Test progress, User Information, Driver Notes, Special needs, Driver Photo and Student Photo.

### 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?*

* I am assuming that this will be a website and will be accessed from different devices.
* I am assuming that the devices accessing this will be from different operating systems such as: Windows, Linux, MacOs, iOS, and Android.

### 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?*

* Limitations will be compliance with DMV laws, this means that we will not be able to release a product that is compliant with DMV laws if not given enough time. This will also require constant maintenance and changes in accordance with DMV laws.

### 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.*

