**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 wants to aid in making the driver's test easier by making new drivers more prepared.

**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?*

* The system should provide training for drivers in the form of online classes and practice tests. This is in response to the high numbers of drivers that fail their driver's test. The system will need different logistical components, like tests and their scores for example.

**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 provide training for drivers in the form of online classes and practice tests. With the ability to sign up for in person training. The ability to measure how a student driver is doing is a must, a student should be able to track their progress and see how they are doing. The system should also allow for remote access and be able to read but not write data while offline.

**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 will be run on a cloud based web application. The system should be optimized to ensure performance is not an issue. The system should also be updated on a consistent basis and backups should be done automatically.

**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 run on all OS that allow for interent access but should be optimized for handheld devices like phones or devices like laptops and desktops on all main OS.

**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 distinction between users should soley be by username and password. A problem should brought to administrators attention when a user has been locked due to a brute force attepmt. Other mainstream differences will include student profiles with a profile picture.

**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 ability to add/remove/modify a user will need to be implemented to ensure the IT admins can perform these tasks on their own. The system should be able to self adapt to updates. The IT of the company should have full and complete access to the system excluding source code to effectively do their job.

**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?*

* There are different roles in the company therefore certain roles will need a higher clearance level when compared to others in the company. To secure the connection between two people and to ensure confidential information is not linked, encryption should be used. If someone is trying to brute force their way into an account, the system should lock the account. If a password is forgotten a server admin should have the ability to reset passwords.

**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 wshould have functional requirements as follows. Validate login info users, track progress on tests and online courses, enroll in courses, sign-up for in person driving lessons, etc.

**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.)?*

* User interface should be easy to navigate not to scare off potential customers or confuse those that are not so tech savvy.

**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 requirements of the client shoudl be met completely and only neccessary things should be added. Either way the client should be notified of these changes. I assumed the sign up for in person training function needed to be implemented. I also assumed the profile implementation.

**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?*

* Most projects do not go according to plan, therefore, assume extra time will be needed. The use of multiple OS' being used means the project needs to be written in different languages, further extending the date of completion on all OS. With time comes the concern of budget, budget should also be accounted for. A specific limitation would be the use of specific resources like IntelliJ for example can only be used to write in Java, multple resources will be required based on platform.

**Gantt Chart**

