**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?*

* Client : DriverPass
* Want to fill a void market for driving tests/classes/practice.
* System needs to be based via cloud, allow for maintenance, and be available via browser.
* access data online from a computer or mobile device.
* Download reports and some information via excel.
* Have different rights/roles for employees.
* Register users, schedule appointments, list cancelled appointments and who cancelled,print activity report.
* Track driver/user data.
* Be able to disable a package
* Store user data.
* Wants system to run off the web, preferably over the cloud.

**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 first question is kind of redundant? - see above bullets?*

* The system needs to be able to add, remove, store, and edit user data.
* differentiate between driving packages.
* They want to provide users with better driving training.
* One problem is wanting access to files from anywhere whether online/offline so downloadable data.
* The system wants to show test progress, drivers notes, drivers photo, special needs for a user, student photo as well as personal information.
* Add a section for notes from a driver.
* Plan for future features.

**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?*

* Allow for users to create a personal driver profile to edit and check on personal progress
* Allow for administrators to moderate/manage the system.
* Store user/driver data and activity logs.
* Allow for a downloadable excel file of certain information for external access.
* Be accesssed via cloud for low security maintenance.
* Tasks : create use case diagrams, build activity diagrams, research user interface designs, build class diagram, get customer approval, build interface, link database to interface, build business logic, test system, deliver system, and then a sign off meeting is required.

**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 enviornments for this application will need to be accessed via mobile/browser. The system should run seamlessly without lag and update in real time as you schedule classes/drives. The system should update as DMV policies change, monthly maintenance and bug fixes may make it necessary for 1 update per month.

**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?*

MacOS, Windows, Android would be be my platform requirements for mobile and desktop use. A database would be required for the users information to be stored.

**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?*

There will be different user levels Administrator's, base users, and teacher level users. Administrators should be informed of issues via user made tickets, website pings, and traceroute tools.

**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?*

Yes, with administrator access there will be website functionality, without changing code, to add, remove, or modify users. The system will need to be agile as environment differentiates between mobile/desktop application. The IT admin will need all access to the website and it's source. Not to mention access to user profiles/data.

**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?*

A user will be required to know their user profile PASSWORD. The encryption of data exchanged can be used to secure the data. If a user's account has a 'brute force' hacking attempt the user account should first be locked down before notifying the user who would then be informed to either contact customer support to change their password or do it via an email based link. If a user forgets their password they will have the option of 'forgot password' to then verify their identity through email to then change their 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.”*

* Add/remove Users
* Modify users
* Schedule
* Have Class access
* Show activity logs
* Have multimple user level access
* Have user login
* Forgot Password
* About info.
* Update itself for DMV policy changes

**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 needs to have a mobile and desktop version.

The mobile version will need to be simplistic while giving a user basic functional needs such as sheduling/cancelling appointments and updating their information.

The desktop version can contain much more in depth scheduling allowing for full modification and editing while also having a scheduling print option.;

Activity logs can be accessed via a desktop version as well as a downloadable excel sheet.

Different users will be drivers, users, Administrators, and the big boss/secretary.

**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?*

* How to register an account into the system.
* Class and practice test access.

I make assumptions that a majority of the users on the system would NOT need a tutorial for navigation and are familiar with using mobile devices and computers. I also assume they use either windows or apple.

**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?*

* Lack of online registration
* Inconsistent data since both the IT admin and boss can access certain functions/data.
* With frequent DMV policy changes the structure of the physical code may need changed frequently.
* With multi platform certain file formats won't be uni-accessible.

**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.*

