**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 increase the success chance of student drivers passing their driver exams. They want to provide there students an accessible way to learn by taking online classes, practice test and additionally road assistance.

**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 problem they want to fix is the lack of interactive learning and accessibility of driving schools. They want there system to be able to be accessed online as well as offline. The platform has to be cloud based. Users should be able to track their progress and be able to communicate with employees and vice versa.

**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?*

* When the system is completed it should be able to track users progress. Users should be able to select packages. User's should be able to register. Users should be able to schedule appointments over internet and phone call. Additionally, should be able to set drop-off/pick-up locations. Admin/Owner should be able to disable packages, reset users passwords able to be in sync with DMV rules and reuglations.

**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 platform must run in a web-based environment and mobile. The back end should be strictly cloud based. The system should always be updated in realtime to run concurrently with operational needs. The system also requires moderate to fast system run.

**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 have a focus on Windows since it is the a majority of the technological market, as well as mobile. The backend should be cloud based, so employees could avoid maintenance.

**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 public input form should only be used by users, Driver and Admins should have a seperate client to manage those users. The inputs should be case-sentive for secuirty reasons. The system should inform the admin right away if a issue has occured, this will save time and money.

**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?*

* From a coding perspective you can change users information if you provide the client with a seperate admin platform that modifies users information. As long as there are rules on how the program is structured updating a platform should not be a difficult task to do. The IT admin clearly needs user access, driver access, and reservation access. The IT team should have full writes over the users 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?*

* For user login should be case sensitive, have a character requirement and a special character. One way to secure the connection or the data exchange between the client and the server is through encryption to prevent man in the middle attacks. If there was a brute force hacking attempt, the user should be notified through via email and we should provide them instruction to reset the password and contact us.

**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 let users shall be able to track test progress
* The system shall let users should be able to make an appointment over internet
* The system shall let users should have an input form to register with first name, last name, address, phone number, state, creit card number, expiration date, and security code. Additionally, drop-off/pick-up location.
* The system shall let users should be able select three packages
* The system shall let admins disable packages
* the system must function efficiently
* The system shall let admins reset passwords if users forget

**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 include a test progress screen, login form, registration form, driver notes, student photo, driver photo and special needs. The different users for the main application would be users and drivers. In this interface thould be able to view driver notes and online test progress, with there profile such as registration information.
* Devs and admins must be able to make changes, as well as update the system as needed

**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?*

* What were not specifically addressed was more so the profile form, I am assuming there should be one. Also the trainer should have its own sister application which gives the option to modify users information and test progress.

**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?*

* In this system design I do not see a particular limitation especially with todays technology excpet for it being cloud based. When running a cloud platform you are lmited in terms of features by the servicer, bandwith issues, and not having much control.

**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]