**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 has noticed there are very few tools to help drivers pass the driving test on the market.
* DriverPass had decided they would like us to help them create a system in the form of a website that will provide students with online practice exams, and the ability to book on the road training.

**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?*

* DriverPass would like their system to help aid and fix the problem of people failing the driving test.
* Driverpass would like to do this by providing online practice exams, classes, and the ability to book on the road training through the system.
* The system should allow you to access data from anywhere as long as there is an internet connection.
* The system should also have proper security features in order to grant access to different users, and the things they have access to do using the system.
* The system should track all reservations, cancelations, modifications, and offer three different packages to choose from for on the road training.

**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 this system is completed it should be a fully functional website that allows customers to book, modify, and cancel on the road driver training.
* When the system is complete it should also allow customers to take practice tests, and classes online.
* The system should also only grant certain access to certain employees in order to make changes if needed be, or to further improve the system.
* In order to help create the system, we should use object models, process models, and UML diagrams in order to help visualize the system.
* We must pick an operating platform, and the languages we will be using to create the website.

**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 should be web based in the form of the website over the cloud.
* The system should be fast enough to allow users to access the website without any complications.
* The system should be updated at any point in time the client decides to add new features.

**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 platform should run on linux.
* The system is using the cloud to manage all the security, which will also take care of databases required for the back end.

**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?*

* Each user should be able to create a username and password, when first accessing the website. The input should be case sensitive. Also, the system should have multi-factor authentication to make it more difficult to hack into an account.
* The system should inform the admin immediately of any problems, glitches or bugs with the website in order to get it back up ASAP.

**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 system will allow you to make modifications to users and allow you remove users without changing the code.
* The system will slowly be introduced into platform updates as a need comes for more features. When driverpass decides they would like to add new features to the website, platform updates will begin.
* The IT admin will have full access to the system in order to make any changes necessary, or remove former employees who should no longer have access.

**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 user will require a username and password to log in, along with multifactor authentication.
* The cloud will be responsible for the data exchange between the client and server.
* The system should disable the account after four incorrect logins in order to prevent brute force attacks.
* If a user forgets their password, they will be prompted to enter the email they used to set up their account, and a password reset link will be sent to that address.

**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 user credentials when logging in.
* The system shall book reservations when made by the user.
* The system shall provide practice tests, and classes.
* The system shall show the driver the customer is paired with.
* The system shall offer three different driving packages.
* The system shall run fast and efficient.
* The system shall provide custom access based on the user and their privilege’s.
* The system shall show the tests and work the user has already completed.

**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 must provide the customer the option to make reservations for driving appointment packages, take online classes and tests.
* The interface must allow driverpass employees to go in and make changes, and update the system as needed.
* The user should be able to interact with the interface from a mobile phone, laptop, computer, or any device that is capable of internet connection.

**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?*

* We were not given a budget for the system. Due to this we are making assumptions that all the stuff we are using to build the system will be in the budget. That includes using the Linux environment, and using the cloud.
* We are also assuming we have easy access to all of this technology.

**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?*

* We have roughly five months to build this system and were not given a budget.
* I believe a major limitation we have right now is more people to build the website. We are in need of more employees to build the website in the five-month time frame.
* Due to this I believe it is best to use an agile approach.

**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.*

