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 client is DriverPass.

⦁ They are looking to improve new driver skills to help them acquire their driver's license

⦁ The system needs to allow drivers to schedule in person driving exercises and practice dmv tests.

⦁ They want to keep their customers information secure

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 wants to increase the success rate of new drivers learning how to drive

⦁ They need a software that can schedule appointments online

⦁ choose a package level to choose which experience they want to partake in, with a credit card software to purchase the package level

⦁ The ability to close pacages if the classes get too filled up

⦁ The ability to reset customer/employee passwords

⦁ User profiles for the customers and the drivers, so that the customer can see their driver options

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 be able to allow customers to schedule appointments for an in person driver training online

⦁ Allow the secretary to schedule in person driver training in the office

⦁ Should be able to create a user profile for information on driver training

⦁ Allow customers to view Driving Instructor profiles

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 service runs off of the internet, it is stored in the cloud for security to be handled by the cloud server, not the business DriverPass

⦁ The system needs to be updated in real time, when a user updates a scheduled driving test, it needs to be updated online, with whom made the change.

⦁ The system should also update when the DMV updates driving policies so that DriverPass is always accurate to promote good Driving behavior.

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?

⦁ This system runs off of the cloud and in a user's browser, so all platforms, including mobile devices should be able to handle it.

⦁ The system needs access to the DMV's regulations, so that it can update new policies for good driving behavior and practice quizzes for users of DriverPass to use.

⦁ DriverPass needs a user Database to keep track of users with their username and password to manage their acconts and keep their progress recorded, along with which package, if any, they purchased.

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?

⦁ Different users will have their own user name and password to manage their accounts.

⦁ Usernames will not be case-sensitive, the passwords must be case-sensitive.

⦁ The system will inform the admins if a password has been forgotten, so that they can reset the password and allow a user to access their account

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 only thing that the user should be able to update is their password, and that needs to be approved by admins.

⦁ The system will need to be down for a day if future updates are planned. As of right now, no updates are planned.

⦁ The IT Admin needs access to all user accounts, by customers and employees, to reset their passwords, if one is forgotten. The IT Admin needs to be able to delete all employee data, if an employee is either let go, or quits.

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 is required to have a username and password to log on.

⦁ The data between the client and the server should have some encryption software between the two to protect user's credit card information when purchasing a package.

⦁ An email should be sent to a user informing them that someone tried to log into their account and to make sure that their credit card information, and other personal information is safe.

⦁ If a user forgets their password, then a notification is sent to the IT Admin to have the password reset. This process should proceed even if the IT Admin is not at his/her desk so that the user doesn't need to wait to access their account.

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 verify user credentials when loggin in

⦁ The system shall allow users to view their profile with their DriverPass status

⦁ The system shall allow a user to purchase a package, and view the corresponding pages with the privlages provided by said package.

⦁ The system shall allow a user to reset their password if it is forgotten

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 system shall present the same interface regardless of operating system being used

⦁ The system shall show the required information about a specific user that has been verified by the system, what their status is, on the user profile page.

⦁ The user shall be able to view each page by clicking a link and sending the user to the desired page. i.e. if the user were to click a link to packages, the system will send them to a new page showing them the 3 options of the packages.

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 are auming that all users have access to the internet to view their information

⦁ We are asuming that, even though the owner of DriverPass has chosen to temporailry cancel a package, all three packages will still be shown to the user, the canceled one will be grayed out and the link to the package "severed" until the package is marked as available again.

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?

⦁ Technology is always a limitation of itself, for it is always evolving.

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.

