**CS 255 Business Requirements Document Template**

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**SNHU**

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?*

* train students for their driving tests at the local DMV
* clients take online classes and practice tests
* optional 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?*

* Access data from anywhere, while online.
* Ability to download or print data for later.
* Ability to store passwords and access rights.
* Information tracking with regards to reservations.
* Ability to store information about clients, including full name, address, phone number, state, credit card information, and pick-up and drop-off locations.
* Ability to make reservations for driving lessions, including date and time.
* Ability to modify or cancel reservations.
* Ability to identify driver, car, and user.

**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?*

* Ability to display packages by name and contents.
* System must be flexible for later use.
* Ability to disable package.
* Ability to update information and connect with DMV.
* Notifications upon update.
* Must run on web, over cloud with no direct control over backup and security.
* UI should include important info on the customer, in-progress tests and completed tests, future tests, score, and status.

**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?*

* System should be web-based.
* There should be monthly system updates and reminders.
* A modern web application of the website should be present.
* The system should be fast and without any complications when accessing the website.

**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 be compatible with most current web and mobile browsers.
* The back end must have a database that stores data, system logs, and user logins.
* The back end should also manage the security and database requirements.

**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 system should be able to alert the user of glitches or bugs.
* The input of passwords should be case sensitive for extra security.
* The system should also detect any critical errors.
* The system should report and log any and all errors.

**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 web application should have a basis for updating or upgrading.
* The admin should always have access to the database.
* The system should be capable of always making modifications to the users without replacing code.

**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 must have a username and password, including admins (though admins may share one)
* If the password attempts exceed a certain number (eg: 3 or 4), then the system may lock the user out until an admin can communicate with and confirm the identity of the user.
* The user should always have an email for sending communication and temporary passwords to in case of lockout.

**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 student, admin, and instructor identification when logging in.
* The system shall book any appointment made by a student.
* The system shall provide practice exams, online classes, and driving instruction.
* The system shall provide all open and available appointments as well as times and days for the upcoming week.
* The system shall lock out users that fail four repeated attempts at login.
* The system shall send an email with communications and a temporary password when users are locked out or a password 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.)?*

* Students should have access to an interface that can provide students with choices for online appointments for practice exams, classes, and driving instruction.
* Students must have access to a computer or mobile browser.
* Students will need access to one of the interfaces from a desktop computer, mobile device, or laptop which has access to an internet connection and a modern web or mobile browser.

**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?*

* Assumption that students have access to a modern computer or mobile device.
* Assumption that students have access to modern web browser or mobile browser.
* Assumption that most students have an email.
* Assumption that students have access to the internet.

**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?*

* Employees should use an agile approach within the project.
* The time frame for the project is 15 weeks.
* There must be a team dedicated to building the website.
* All major browsers should be compatible.
* There may or may not be an appropriate budget for the project.

**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.*

