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Last updated: 10/13/2024

# 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 goal is to create an accessible website for student drivers across the country. Features such as practice tests as well as online classes, helping our client’s customers with their training. Liam is the client in question, he come to us in hopes of having a better system for his DrivePress company.

### 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?*

* Considering of our client’s concern about the program not being save while offline, and as well as not wanting “data redundancy while on different servers”, we choose a cloud system for the interface. That why the program’s progress will be saved only both online as well as offline. The system should be web base to make it accessible. Things such as security and customers data will be in consideration. Our client wants to know data on how much time their customers are spending, and their choices. For both security and privacy reasons, only a certain number of employees will have access to that information.

### 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 website should be as accessible to all people if possible.
* Information such as customer’s time spent, as well as comments could be seen by our client, but only a approve select number of employees for security reasons.
* The system should be accessible offline as it is online.
* Give our client’s customers the ability to choose deals and packages on different rates.
* Our client should have the ability to know which driver, time, and car is associated of each customer.
* Give our client’s customers the ability to see test and progress scores, showing lists such as tester’ name, amount of time spent, 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?*

* Our client didn’t want to “deal with backup and security”, the system will be web base on a cloud system, as well as making it more accessible.
* To keep up with constant requests, and the number of users It will also need to run on fast speeds.
* Such DMV guidelines are always being change and updated, the program should constantly change and update as well. Not just to keep up with changing DMV guidelines but to take care of bugs and other software issues.

#### 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 not be only accessible on a laptop or a desk device; to make it more successful it should also be able to be use on a mobile device, but only will be run if it could fit the screen. Too small a screen will make it difficult for the system to run. The system should be run on all major platforms including Windows, Unix and others.
* Such storing information is essential, having a back end is required.

#### 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?*

To log in, the users will enter their email and password, which will be accessible only to them. To help with keeping this information exclusive to only our client and their customers, all inputs will be case sensitive, as in “Aur245” will be treated as a different password or username as “aur245”. A “b” and a “B” will be two different characters, which will make usernames and passwords easier to remember and make passwords more complex and harder to type in random. The number of attempts to entered email and password will be limited, admin will be notified if that limit is exceeded.

#### 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?*

* Our client’s IT will need to be able to access user account and employee information. If an employee is no longer with the company, our client IT will be able to remove them.
* The programmers will be able to make updates to the system to keep it adaptable.
* All of this should be done without causing problems for the users.

#### 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?*

* To secure connection between client and server, HTTP (Hypertext Transfer Protocol) will be used.
* As typical, all customers will need to log in before taking part in the program.
* If a user has trouble remembering their password, they will be able to request a “update password” to their personal email or phone number. Only from their email they could “update password”.
* Admin will always be aware if there is a “brute force” hacking event or when there is more than 4 login attempts on one account. The login will automatically close off to the user when that happens.

### 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 will useable online, along with resources such as study materials offer off line.
* All user’s information should have to be confirmed before using the system. Information details such as address, phone number, use of payment, and name. The disable package will be display on the customer’s side.
* When a user pick one of the package options provided, the system should confirm it. There will be three options provided. If a package option becomes unviable, the customer will have the option to disable it.
* User’s type, either of the company or customers should be confirm by the system.
* The system should provide details such as exam progress and scores to the customers.
* Customer will have the option to resect passwords.

### 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.)?*

* All internet connected devices will be accounted for, including devices such as laptops and mobile phones.
* Both our client’s admin and developers will be allowed to make any necessary changes and improvements to the system.
* The interface should handle all the users’ making bookings, taking tests and lesions on the system.

### 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?*

* The number of customers our system could handle, and how much users do we and our client as expecting to have. without proper software the system could collapse if there are too many users using the program at once.
* How much do all of this will costs.

### 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?*

* Having an outdated device that isn’t perfectly suited for modern software will be a problem for a user.
* Since the project is needed to be completed in a finite timeframe, that will be a limitation
* If the project takes a more than expected amount of costs to complete, that will be a limitation.

### 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.*

