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CS255

June 26, 2022

Project One: Business Requirement Documentation

# 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 create an application that student drivers can use as a resource to prepare for their driving test.
* The client is the company DriverPass, and they would like to implement an online system for student drivers to schedule appointments, study, book driving sessions, and just overall prepare for the driving test.

### 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 the system to allow students to manage their driver practices by being able to order and schedule driving practice sessions. They also want the system to provide studying materials for the student drivers.
* The problem the want to fix is making the student driver experience more easily accessible and mobile.
* The different components needed would be a learning module, a scheduling module, a task manager, a profile setting, a progress bar.

### 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 have a database that is hosted from the cloud, and have different training courses that you can access from anywhere. The courses should keep track of your progress. The user should also get real time notifications when new information or courses are posted. The system should have a live calendar feature where the user can schedule and manage appointments. The user should also have access to a profile page with their information. An administrative setting should also be added for admins.
* Measurable tasks taken to ensure this is all accomplished would be consistent testing before deployment.

## 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 environment the system needs to run in would be a web-based cloud application.
* The system should run quickly with frequent updates when something is inputed by the user or changed.

#### 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 application could be run on a wide range of platforms, as long as they support cloud based applications.
* The backend will require a database and a secure way to manage payments.

#### 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 will have login tokens that will distinguish them between Admin or Student.
* Input will be case sensitive.
* Admins should be given consistent updates on issues with users.

#### 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?*

* Users can be edited without changing code by having a database with user info that you can modify on click.
* The system will be able to handle updates in real time, and IT admins will be given access to the back end with the ability to update the database.

#### 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?*

* In order for the user to login they must be registered in the DB with an email and password.
* Giving login tokens will secure the connection.
* Brute Force Hacking attempts will result in account temporary lockage.
* Users can reset their passwords with their emails associated with their accounts.

### 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 allow users to create a profile with user information.
* The system shall allow users to manage their schedules.
* The system shall allow users to view learning modules.
* The system shall keep track of users progress.
* The system shall allow users to reset account password.
* The system shall allow admins to manage user accounts and info.

### 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.)?*

* Users will interact with the interface via the application or web browser.
* Users will need to manage their personal info and schedules with the interface.
* Users will interact via mobile or browser.
* The different users are students and admins.

### 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 assume users know how to use mobile applications.
* We assume users have emails.
* We assume users know how to use learning modules.
* We assume admins know how to manage user info.

### 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?*

* A potential limitation would be managing refunds directly on the site. You may have to reach out to customer support.

### 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.*