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?

This project aims to create a better and more reliable system to assist student drivers study and pass their exams. The client Liam hopes to capitalize on already existing but outdated field in a more modern and seamless manner by making it online and available at anytime.

System Background

What does Driver Pass want the system to do? What is the problem they want to fix? What are the different components needed for this system?

The system will need to be available online and offline for the company to reach one of their many goals. the system needs to be secure with private info being accessible to the employees .

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?

customers must be able to chose which package they will be purchasing as well as allow them to stop services at anytime.

Allow students to log their hours and when they pick up the vehicle and leave it.

the client would like to see the location of the vehicle being used.

the client would like to make sure the correct student is getting into the vehicle and logging the correct time.

client wishes to have access to private data both on and offline.

Requirements

Nonfunctional Requirements

In this section, you will detail the different nonfunctional requirements for the Driver Pass 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 update at the end of each business day at the minimum to ensure the most accurate data is being uploaded.

the system will be web based as specified in the requirements.

the system should prioritize speed and efficiency over all when operating.

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 program should run off of most commonly used browsers such as chrome, Microsoft edge, opera, etc. in order to minimize any issues or complications the platform used should be windows.

if data is to be properly logged a database shall be needed. most employees involved in maintaining the program will have to be versed in languages such as SQL and others.

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?

they should be able to tell a password from an email when a user is attempting to log in, a 2 factor auth should also be considered.

case sensitivity should be needed to increase the safety pf each user's account.

After a certain number of failed attempts at logging in an email should be sent to both the user's personal email and the admin team notifying them of the failed attempts.

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 should be able to update their account info as well as the admin team without any major changes to the code.

When the maintenance team takes over operations, the program should be able to adapt all updates and requests made without much downtime or any.

the IT admin will need access to all personal and confidential data, passwords, and the ability to remove access from EX employees.

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?

When logging in both users and admin personnel should be required to input the correct usernames and passwords.

HTTP to maximize the security of all data being transferred.

During brute force attacks the admin team should receive a notification after a certain number of attempts within a brief period.

If the users forget their passwords a request should be sent to their personal email requiring their action to verify it is them.

Functional Requirements

Using the information from the scenario, think about the distinct 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 confirm which type of user is logging in (admin or consumer)

The system shall confirm the package chosen by the consumer

The system shall confirm all password change request

The system shall confirm if a user has input the correct password

The system shall display progress and scores.

The system shall allow users to terminate service if requested

The system shall allow for course material to be used during offline studying

The system shall allow admins to alter all personal and confidential data

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.)?

home page

account

progress

study material

exams

notes

new user or login

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 system will be available 24/7 to all users and admins.

users will be students to their local DMV

all users will be made aware of all new requirements and guideline changes set by their local government

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 stable connection to the internet

budget of the project

dmv guidelines

limitations of number of vehicles

weather affecting both road conditions and connection

Gantt Chart

Please include a screenshot of the GANTT chart that you created with Lucid chart. Be sure to check that it meets the plan described by the characters in the interview.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | Jan | Feb | Mar | Apr | May | Jun | Jul |
| Collect required data | 22-Jan | 4-Feb |  |  |  |  |  |
| Create use case diagram |  | 11-Feb 18-Feb |  |  |  |  |  |
| Build activity Diagram for all use cases |  | 15-Feb | 9-Mar |  |  |  |  |
| Research user interface diagram |  | 27-Feb | 7-Mar |  |  |  |  |
| Build class diagram |  |  | 1-Mar 9-Mar |  |  |  |  |
| Get approval |  |  | 10-Mar 11-Mar |  |  |  |  |
| Create interface |  |  | 12-Mar 24-Mar |  |  |  |  |
| Create data base |  |  | 24-Mar | 3-Apr |  |  |  |
| Create business logic |  |  |  | 5-Apr 27-Apr |  |  |  |
| Run test |  |  |  | 27-Apr | 7-May |  |  |
| Deliver system |  |  |  |  | 8-May 9-May |  |  |
| Final sign off |  |  |  |  | 9-May  10-May |  |  |