Southern New Hampshire University

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 DriverPas wants to create an app that eases training and practicing students for their driver's test.
- The app should contain practice questions, online testing, and scheduling for driving lessons.
- The app will fill the gap for better 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?
- The system should be able to hold all the data for the client.
- It should contain a tracking system. This will aid in reservations for driving lessons.
- It should also contain registration information of their name, address, phone number, state, and payment information.
- The system has to be able to run on a cloud network for access.

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 will keep track of appointments, test progress, hold driver's notes, and student and driver information.
- The app will show lesson times, start and end as well as driver comments.

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?
- Internet-based cloud systems will allow information to be accessed by developers and support.
- The system needs to be accessible offline as well and then update when it is connected to the internet.
- The system should be kept up to date often especially when DMV rules change.

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 run on Windows, ios, and mobile in order to be available for access at all times.
- A database is going to be used and can be downloaded using Excel. The database will help manage reservation tools.

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?
- Users will all have their own usernames and passwords.
- The input should be case-sensitive and not allow duplicate usernames.
- The system should inform the admin of a problem when there are repeated errors and crashes.
- The system should also inform the admin after multiple failed password attempts.

Adaptability
Can you make changes to the user (add/remove/modify) without changing the code? How will the system adapt to platform updates? What type of access does the IT admin need?
- Ian, the IT Officer, will be maintaining the system and have all the access to the front and back end.
- The system should be adaptable to updates of the platform without needing to change the 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?
- There will be a username and password to log in.
- If a user forgets their password they can contact the company to have it reset.

- Data should be secured and protected as all personal information is on the accounts.
- If there is a brute force hacking attempt an admin would be notified. On the users' end, they should be told to contact the company.

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 save all user's data when signing up.
- The system shall keep track of appointments, cars, and drivers available.
- The system shall keep track of online testing progress.

User Interface

What are the needs of the interface? Who are the different users of 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 interface should contain the logo, online testing progress, student information, driver's notes, special needs, and a photo of both the driver and student.
- There should be a table containing the booked lesson information; start time, end time, and diver comments.
- The users will be the students, drivers, and admins of the system.
- The student and drivers will be able to look at appointments and information of the respective half.
- The admin will have access to all information and can edit as needed.
- The users should be able to use mobile and browser interfaces.

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?

- One thing specifically not addressed in the design is having a GPS tracking system for the drivers and students. Being able to see where the car is being driven to and if there is an accident or emergency it can be recorded.
- It is assumed that all of the users will be using a mobile device to access the app.

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?

- Time is a limitation, the client wants the system done in a timely fashion.
- The customer must approve the design before moving forward.
- The system itself would not be able to be heavily changed as it can skew the layout of the app.

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.

TASK Name	January - 22 start date	February	March	April	May - 10th end date
Collect Requirments	Jan 22 - Feb 4				
Create Use Case Diagrams		Feb 11 - Feb 18			
Build Activity Diagrams for Each Use		Feb 15 - Mar 9			
Research User Interface Designs			Feb 27 - Mar 7		
Build Class Diagrams			Mar 1 - 9		
Get Customer Approval			Mar10-11		
Build Interface			Mar 12-24		
Link DB to Interface			Mar24-Ap3		
Build Business Logic				April 5 -27	
Test System				Ap27-May7	
Deliver System					May 8-9
Sign Off Meeting					May 9-10