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?
- This project is to streamline and take online the process of the DriverPass business model to accept online scheduling, provide feedback, and offer courses and packages to those interested. Their business model is targeted towards teenagers looking to pass their 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?
- Currently they are scheduling in person or over the phone, so this is an easy fix to have an online interface that can take care of this task. Then they want to be able to display historical feedback given to the student in their custom dashboard. They also want to offer courses the student can take to practice for their driving test.

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 be able to easily accept a new user, display their information on the dashboard, offer different courses and packages and allow them to schedule a session with a licensed instructor. Those three objectives are the broad goals that can be broken down, but overall are needed to achieve the desired system.

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 client requested a web-based application. The site should be responsive with very minimal technical issues. The client would like the ability to send updates to the site like what packages they are currently offering, and updating the driving schedule with the instructors.

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 is web based, so it should be universal, just need a browser to access it. The back end will need a database and a few other tools like collecting users payment information and processing that, and then a database to store more user specific information.

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?

- Distinguishing between users is not a big deal, they can all be assigned a UUID to be stored in the database. If an issue occurs, ideally the system will be able to alert the admin immediately.

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?

- This feature is not a priority as we told the client that it would likely take coding knowledge to do so. But this is possible if the client is interested. The IT admin will obviously be given full admin access to the program.

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?

- Using a simple cloud based platform such as AWS or Google's Firebase, this can all be taken care of. They offer simple log on features including brute force attack protection and simple functions to reset a forgotten password.

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 provide a clean interface to create a new user/log in.
- The system shall offer the ability to purchase different packages from the client to the user.
- The system shall provide a checkout interface to complete any transactions.
- The system shall store all information securely on a database.

- The system shall allow a user to schedule a driving session and customize it to their needs.
- The system shall have a "worker" frontend that gives more permission to allow them to make certain changes or provide feedback to a user.
- The system shall show the user's progress/completion with the clients online courses.

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.)?

- The two main users are the customers and the employees. The user's will need the ability to create their user, login, view their courses, sign up for a driving session, and pay for any additional features.
- The employee will need the ability to view certain data of the user, provide driving feedback for them, and add or remove and custom packages.

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?

- With making a web based platform, the only assumption is that the users have a stable internet connection and access to any device to utilize the internet from. This would be different with say a strictly iOS platform.

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?

- The only limitations will be time. Sam and Jennifer set out a good time line that they should be reasonably able to meet the requirements in that time period. But that is a 4 month project, and they did not run that by the client. If I were the client I would expect this project to be done in no longer than 1.5 - 2 months. They are being very lenient on their timeline that they set out.

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.

Southern New Hampshire University

Gantt Chart for DriverPass
Eric Engman

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14	Week 15
Collect Requirements	■	■													
Create User Case Diagramse			■	■											
Activity Diagrams				■	■	■									
Research UI Desings						■	■								
Build Class Diagram							■								
Get Customer Approval							■								
Build Interface							■	■							
Link DB to Interface									■	■					
Build Business Logic										■	■	■	■		
Test System													■	■	
Deliver System															■
Sign-off meeting															■