Southern New Hampshire University

CS 255 Business Requirements Document Template
Kyle Lund

CS-255

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, DriverPass, wants a system built that can provide customers driver training to help them pass their driving tests at the DMV. The system should be able to offer online classes, practice tests, and on the road training to customers. DriverPass wants the system to be accessible online and offline to be able to download work information and to use Excel at home. The system should also allow employees to access data and information they would need to do their jobs functions and allow managers to manage user accounts and backup data.

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 their system to help drivers in need of driver training to pass their DMV driving tests. The company has identified a need of drivers that are having a hard time passing their drivers tests safely. The components needed for the system include online classes, practice tests, and on the road training. The system will be used by customers, employees, and management to manage and maintain the training.

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?
- Allow customers to access online classes, practice tests, and on the road training.
- Allow customers to make reservations for lessons, online or in person, and track the driving instructor they will be paired with.

- Allow employees to access information to complete their job tasks.
- Allow managers to manage user accounts, security, and system backups.
- Provide a system with different levels of access per employee.
- Track user activity, which include, who made reservations, who canceled reservation, and who made the change last to the reservation.
- Allow the client to access system data online and offline to download information for use.

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 system needs to be web-based as a website. The system should run fast enough to allow users to access the website and use its functions without any problems. The system should be updated when new features are added to the website or in the case of bugs and security 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 platform should be run on windows for easy support, and most users use them. A database is required for two things, to keep track of employee data and to keep user data and account 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?

- Users should be able to create an account by using an email, username, and password that are all case sensitive. The admin should be notified if any problems, glitches, bugs, and security issues occur in the system. The notification should be immediate so the admin can fix any problems as soon as possible.

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?

- The system will allow users to update their information and delete or remove their account if necessary. Updates should roll in slowly as needed; the system will update the website as new features are added. The IT admin will need full access to the system to make necessary changes.

These changes can include removing employees' access, updating, or fixing the website, and notification of potential changes in the system.

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?

- For users log in a username and password are required and an optional two factor authentication. One method to protect data is by using an SSL, the SSL certificate can confirm a trusted user and allow that user to access the server. A user will have a limited number of log-in attempts before the system locks the account. The user will then have to access their email to reactivate their account. If a user forgets their password a forget password option is available. The user will enter the email they used to sign up and reset their password through their email.

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 update reservations made by the user.
- The system shall provide practice tests and classes.
- The system shall show the user all tests and classes completed.
- The system shall run fast and effectively.
- The system shall offer different driving packages.
- The system shall show the user their paired instructor.
- The system shall manage access according to the user's privilege levels.

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 interface should be easy to use and simple to understand at first glance. The different users are clients, driver pass employees, and instructors. The interface must allow users to create appointments and take classes and tests. The interface should allow employees to update and make changes to the system when needed. The user should be able to access the interface on a computer and a smart phone that has access to the internet.

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?

- Without a budget we are assuming finding for all features will be viable. We are also assuming the users have either a computer or phone that can connect to the internet and visit the website.

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 limitations we face are a time restriction. There are only a few months to design and create this system from the ground up, the limitation is budget and developers to create the system. Without enough developers or budget problems and corners may need to be fixed and cut.

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.

Gantt chart

kyle lund | July 27, 2023

Diagram Key
- Team 1
- Team 2
- Team 3

	Jan	Feb	Mar	Apr	May
Collect Requirments	Jan 22 - Feb 4				
Create Use Case Diagrams		Feb 15 - Feb 18			
Build Activity Diagrams for Each Use Case		Feb 15 - Mar 9			
Research User Interface Designs		Feb 27 - Mar 7			
Build Class Diagram			Mar 1 - Mar 9		
Get Customer Approval			Mar 10 - Mar 11		
Build Interface			Mar 12 - Mar 24		
Link DB to Interface			Mar 24 - Apr 3		
Build Business Logic				Apr 5 - Apr 27	
Test System				Apr 27 - May 7	
Deliver System					May 8 - May 9
Sign-off Meeting					May 9 - May 10