

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?

- DriverPass wants to fill a gap in the market by offering better training options for new drivers. They want a system that helps users take online classes, practice tests, and schedule in-person driving lessons. The system also needs to work for administrators and other team members who manage the business.

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 noticed that many people fail their DMV tests because there aren't enough effective training tools. They want to create a system that helps people prepare better. The system will include features like online scheduling, user management, activity tracking, and updates from the DMV to stay current.

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?

- Let users easily book, reschedule, or cancel lessons.
- Allow admins to track activity and manage users.
- Be secure, reliable, and easy to update.

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 should be web-based, respond quickly, and have regular updates to ensure everything runs smoothly.

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?

- It should work on all major platforms like Windows, macOS, iOS, and Android. The backend will use cloud technology for storage and processing.

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?

- The system should use role-based permissions to make sure only the right people have access. It should also notify admins if there are any errors or issues.

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?

- It should be possible to add, remove, or update features (like user roles or packages) without needing a lot of code changes.

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?

- Security measures should include multi-factor authentication, data encryption, and account lockouts after too many failed login attempts.

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."

- Let users schedule, cancel, or modify lessons.
- Notify admins of any updates from the DMV.
- Allow secure logins and role-based access.
- Provide detailed reports of user activity.

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.)?

- **Different Users:**
 - Admins: Manage the system, track activity, and handle user accounts.
 - IT officers: Maintain the system and fix technical problems.
 - Secretaries: Help schedule lessons and handle reservations.
 - Customers: Schedule, cancel, or reschedule their lessons.
- **Interaction:**
 - Users will interact with the system through a web browser or mobile app.

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 that users will have access to the internet and know how to use online tools.

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 project has time, budget, and resource limitations. It also relies on the DMV providing timely updates.

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.

