

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?

- For this project, my goal is to design a system for DriverPass, a company that helps students prepare for their DMV driving tests. I want the system to give students access to online classes, practice exams, and the ability to schedule driving lessons. It also needs to support DriverPass in managing instructors, appointments, and training packages. Overall, the purpose is to make it easier for students to prepare and improve their chances of passing their tests.

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?

- Many students struggle to pass their DMV tests because they lack the right resources and practice. To help with this, DriverPass offers online tools and in-person training. The system I am designing will let students take practice exams, track their progress, and schedule driving lessons with the right instructor, vehicle, and time. The system needs to give different types of users the right level of access. Administrators, IT staff, secretaries, instructors, and students should each have their own permissions. The system should also create reports, track who made or changed reservations, and run in the cloud for easy management. Additionally, users should be able to download reports for offline use.

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 I'm working on should:

- **For students:** let them create accounts, log in securely, take DMV-style practice exams, track their scores and progress, and schedule, cancel, or modify their driving lesson appointments.
- **For secretaries:** make it possible to enter student information when people call or come in, and manage reservations and cancellations.
- **For instructors:** allow them to view their schedules, see which students they're assigned to, and record notes about student progress.
- **For administrators/IT staff:** provide tools to reset passwords, manage accounts, block access if needed, and disable training packages that aren't being offered anymore.
- On top of that, the system should stay up to date with DMV changes, create reports that show who made or modified reservations, and be flexible enough to handle updates to training packages in the future.

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?

- [Insert text]

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?

- [Insert text]

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?

- [Insert text]

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?

- [Insert text]

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?

- [Insert text]

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.”

- [Insert text]

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.)?

- [Insert text]

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?

- [Insert text]

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?

- [Insert text]

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.

[Insert chart]