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CS-255

2/04/2026

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's identity -> DriverPass
- What they desire -> A method for instructing pupils and overseeing driving classes

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 issue: Students don't pass DMV exams
- The answer: online instruction plus driving instruction

Important aspects of the system:

- Setting up appointments
- Handling clients
- Monitoring lessons learned and advancement
- Keeping track of packages
- Giving reports

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?

- Online registration and class scheduling are available to clients.
- Workers are able to handle reservations

- Reports and activity can be monitored by owners
- The system is upgraded to reflect DMV regulations.

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?

- Cloud-based and web-based systems
- Compatible with mobile and computer devices
- Quick reaction times
- Frequent updates

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?

- Web browsers must be used.
- Needs database storage
- Cloud hosting is required.

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 need to use distinct accounts to log in.
- Keep track of who modifies appointments.
- Report system issues to administrators.

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?

- Users and packages can be updated by administrators.
- The system adjusts to changes in technology.
- The system administrator has complete control.

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?

- Password resets and secure login
- Safeguard credit card information
- After hacking attempts, lock the account.

- Safe data transfers

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.”

- Customers will be able to create accounts on the system.
- Users will be able to book driving lessons using the system.
- Customers will be able to change or cancel appointments via the system.
- Schedules, vehicles, and drivers will all be tracked by the system.
- Information about consumer payments will be stored in the system.
- Test progress and results will be shown by the system.
- The system will enable report generation for administrators.
- IT personnel will be able to control user roles through the system.

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

- Customers
- Secretary
- Drivers

- IT admin
- Owner

Interface Needs

- Web browser access
- Mobile friendly
- Forms for registration
- Appointment scheduler
- Progress dashboard
- Driver notes page

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?

- Users are able to access the internet
- Web browsers are available to customers.
- There is a system for processing payments.
- DMV data is connectable

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?

- Financial and time limitations
- For the initial release, package customisation is restricted.

- Data updates require the internet.

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.

