Southern New Hampshire University

CS-255 System Analysis and Design

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July 1st, 2023

# 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 is DriverPass and the vision is to provide training for customers because there are many people failing the driving test at the DMV.
* The client is requesting customers to be able to take online classes and practice tests.
* DriverPass will also request to provide the ability to book on-the-road training.

### 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 the system to help people pass the driving test because the problem is too many people are failing the driving test.
* The system needs to be able to provide online classes, practice tests, and the ability to book on-the-road training.
* The system must have proper security features to protect user data.
* The system must be able to track who made a reservation, who canceled it, who modified it last when booking reservations for driving lessons regarding the three standard packages that are offered.
* The system should be able to work offline to download 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?*

* The system should include online test progress, both current and completed. Progress should include test name, time taken, score, and status (not taken, in progress, failed, or passed).
* Comment box will be on a table to include driver notes of lesson time, start hour, end hour, and driver comments.
* The system must be able to track who made a reservation, who canceled it, who modified it last when booking reservations for driving lessons.
* Reservations are only accepted by using a customer account, call or visit our office to schedule an appointment with DriverPass’s secretary.
* Driving appointments only allow customers to pick one of the three packages offered and must also be flexible to customize packages by removing packages.
* Driving appointments cannot be processed if appointments exceed more than 10 cars.
* The system should receive notifications when the DMV updates their rules, policies, or sample questions.
* Employees will have different levels to perform their duties that may include managing accounts, security, and data backups.
* Usage of object and process models and UML diagrams to help visualize the system.
* Deciding what is the best operating platform and what languages will be available on the website.

## 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]