# CS 255 Business Requirements Document Template

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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?*

* This project is for our client DriverPass, a company that trains students in driving. The purpose is to provide training to students to help pass their driving exams at the DMV.

### 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 client has asked us to build a system that is able to:
* Make appointments (online and over the phone)
* Take exams online.
* Different roles with different access (Admin access to everything while customer is limited in what they have access to.)
* Track changes to the system.
* Print activity report.
* Make data downloadable.
* Make reservations:
  + Reservations are two-hour blocks.
  + Day and time when they want the lesson.
  + Identify the Driver the customer is going with.
  + Identify which Car is being utilized.
* Different package options:
  + Package one 6 hours (each lesson is 2 hours, so it needs to be 3 different appointments)
  + Package two is 8 hours, plus an in-person lesson explaining DMV rules and policies.
  + Package three is everything package two has plus online classes with practice tests.
  + Packages need to be able to be disabled by the SuperUser of the system
* Registration requirements:
  + User must provide name (First and Last), Address, Phone number, State, Credit Card Number, Expiration date, and security code.
* Current information:
  + Receive notification anytime the DMV changes; Rules, Policies or supplies sample questions.

### 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?*

* Create a system that has different user access levels.
* Create a system that tracks changes and provides an activity printout.
* Create a system that allows for booking reservations and choosing packages.
* Create a system that allows for online tests and materials.
* Create a system that receives notifications when the DMV changes any Rules, Policies, or provides sample questions.

## 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?*

* Environment will be web-based
* System needs to load withing 4 seconds
* System should be updated maintained on a scheduled weekly basis

#### 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 system will run on Windows
* The back end requires a database for maintaining appointments

#### 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 will have a unique username
* Usernames are not case sensitive
* Admin will receive notification if three failed login attempt occur

#### 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?*

* Admin will be able to update appointments via the interface
* The system is set to be able to scale up with more clients
* The IT admin will need a SuperUser or Admin account

#### 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?*

* The user will be required to input a username and password
* Using SSL we can secure the data exchange between client and server
* If three failed attempts happen in rapid succession the account will be locked
* Admin will be required to review the account to unlock it
* If a user forgets their password they will be able to send a password reset request to the email they had provided when signing up

### 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 keep track of tests users have taken
* The system shall notify users of upcoming appointments
* The system shall allow users to choose different packages

### 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.)?*

* Interface needs a login page
* Interface needs a way to schedule / update/ cancel appointments
* Interface needs to show days of open availability
* Clients should be able to see available tests
* Clients should be able to content they have purchased
* Layout should be similar whether logging on via mobile or browser

### 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?*

* Client has access to the internet
* Client has email address to make an account
* Servers will always be on (except during scheduled maintenance)

### 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?*

* Adding / Dropping packages at the clients request
* Server capacity may need to be increased with increased clientele

### 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.*

A screenshot of a computer

Description automatically generated