# 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 purpose of this project is to design a web-based program that can be accessed on or off line and from a computer or mobile device for our client DriverPass. They would like the system to be able to provide training to their clients to help pass the DMV driving test, providing online courses, training materials and in car lessons.

### 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?*

• Driver Pass would like to solve the problem that there is a need for proper driver training. They want the system to be able to provide lessons, practice tests, current information from the DMV as well as online booking for in car lessons. They will need online scheduling, online testing and the ability to access data from anywhere at anytime. They will need ability to add or remove users and a reservation system. They will need the ability to identify what driver is with what student at any time, and the ability to add or remove packages.

### 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?*

Measurable tasks include:

-Working website that can be accessed as well on a mobile device.

-Reservation page that shows current reservations and available reservations, included are dates and times and pickup and drop off points.

-Once completed the user should be able to take online courses and see practice tests

-The system needs to have access for employees to add or remove users and a management access to maintain level of access to employees.

## 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 have an application that can connect to the online server and still have access to documents that are offline.
* The application needs to be easy to use and navigate and display pages and videos as well as good speed throughout the process.
* The system needs a way to be updated as the DMV updates their policies.

#### 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 should be able to run on multiple devices and operating systems.
* It would be a good idea to be able to operate the system from the cloud as it wouldn’t require extra databases or tools
* Add a data base to hold records of users.
* Springboot

#### 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?*

* There will be different users with login requirements and layered security.
* System will maintain and check that there are no duplicate logins
* Admin will keep track of reservations and who can modify them
* If there are problems with passwords or glitches or bugs the system admins should be informed.

#### 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?*

* The admin will need full access to the system which will allow for changes to be made and to ensure the code is not changed
* Admin needs availability to modify any user without changing code
* Adding or removing modules for a future release

#### 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?*

* Layered access for the different levels of employees.
* Passwords and unique usernames for everyone
* If the user forgets their password, they can follow the instructions on how to create a new one
* When the hacker reaches the maximum limit, your account will get restricted. With this, you will be able to keep your account safe and your data secure.
* Use SSH Keys Authentication, Use Private Networks and VPNs and Monitor 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.”*

* The system shall prompt you to inter your valid username and password
* The system shall provide practice tests and classes
* The system shall offer three different packages
* The system shall book reservations
* The system shall run fast and efficiently
* The system shall show work already completed
* The system shall provide access to user and their privileges
* The system shall allow a user to reset their password

### 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.)?*

* The needs of this interface are laptops, mobile devices and computers.
* Different users who use this interface are the Admins and developers of this system. They must be able to update the system and make changes at any given time.
* The users who will be using this interface need the ability too book, take tests, use the online lessons and change passwords.

### 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?*

* For the most part everything was addressed in this design.
* A budget was not given initially so we are assuming that everything in this project will be inside the budget
* We are assuming that the users have basic computer skills and will be able to use the interface easily

### 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?*

* If the user has poor internet
* Time is a limitation as we are on a schedule
* If the system isn’t upgraded frequently we could fall behind the DMV requirements
* Adding or removing modules for a future release

### 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.*

Table, timeline

Description automatically generated