# 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?*

* Client is DriverPass
* Wants to take advantage of the void in the market with training students for their driving test at their local DMV
* Wants to provide online classes and practice tests for people to prepare for their driver’s test
* Possibility for on-the-road training
* Needs a system to handle this

### 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?*

* Access the data online from any computer or mobile device
* Be able to download reports and information to work on at home
* Manage security through accessibility
* Track reservations and any modifications (including creating them and cancelling them)
  + Printable activity report
* Create different user accounts for employees and customers
  + Customer information includes: first name, last name, address, phone number, state, and credit card information
* Connect to the DMV for notification on policy updates
* Interface needs to run off the cloud

### 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?*

* Customers need to be able to make reservations for driving lessons
  + Customers select the day and time through their account
  + Customers need to enter a pick up and drop off location
  + Customer can select one of the three packages
* Identify the driver that the customer is scheduled to go with
  + Be able to see which user is matched up with a certain driver, time, or car
* Allow the packages to be modified as they develop

## 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?*

* Web based and mobile access
* Keep data online but allow it to be downloadable
* Needs to run off the web (preferably the cloud)
* Needs to be updated with any DMV updates
* Needs to be update with any bug fixes or patches
* Should run fairly quick for online tests and videos

#### 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?*

* Can run on any system compatible with browsers
* Linus may be best for the browsers and the cloud
* The backend with need a data base

#### 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 be distinguished by accessibility
* Users will also be distinguished by log in information
* Input will be case sensitive for security
* The system should inform the admin of a problem when there are too many failed log in attempts

#### 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 will be able to create an account (this is for all users)
* Users will be able to modify their account info
* Users will be able to delete their account, but staff members will remove it
* The browsers should be able to adapt to any updates made by IT
* Updates will be made for bug fixes and any additional patches
* IT will have complete admin access to the system. This includes full access over all accounts and the ability to add/remove access permissions

#### 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 is required to have a username and a password to log in
* There will be different access for guests and employees
* There will be different access levels for employees based on what information they need to access
* IT will have the ability to block or restrict access on any account which would be the result of a hacking attempt
* If a user forgets their password there will be a forget password link that will be sent to the email associated with their account
* If the user continues to have issues with their password they will be able to contact IT
* Security will be contracted

### 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 allow users to change their personal account information and reservations
* The system shall provide online practice exams for users to take
* The system shall get a notification with any DMV updates
* The system shall provide online classes for users

### 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 interface needs to run off the web over the cloud
* There are customer users and administrator users
  + Liam and Ian will be administrators
* Users will be able to schedule appointments
* Administrators will register customers will accounts
* The user interacts with the online test progress and appointment scheduler

### 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?*

* The color scheme will need to be easy to read and visually appealing
* Assuming the users have updated browsers to work with the system
* Language barriers
* Planning for any future releases

### 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?*

* The ability to add/remove modules for future releases
* The timeline is fairly short so it will be a time crunch to ensure quality (end of Jan to mid May)
* Not many designs notes from Liam and Ian

### 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 picture containing text, screenshot, square, diagram

Description automatically generated