# CS 255 Business Requirements Document

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
* They want a system that will allow people to take online classes and practice tests
* They will also provide optional on-the-road training if wanted

### 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 system is trying to provide resources to customers to better prepare them for their driving test at the DMV
* The system allows customers to make reservations for driving lessons
  + It also needs to store and track this data so that there are not multiple people reserving the same time slot
  + It needs to keep track of the drivers and cars the customers go with
* It needs to support different kinds of users
  + Admin, IT, secretary, users
* Three packages to choose from for driving appointments
  + Needs to be flexible to allow for addition/removal of packages
  + At least ability to disable packages
* Connect to the DMV to stay updated on requirements
* Runs on the web, cloud-based
* Needs to handle the security

### 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?*

* This system will store data that can be accessed and downloaded
* It will allow customers to register for driving times
* It will allow customers to take online practice tests
* It stores information for each customer

## 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?*

* This application would be best as a web-based application. While speed is not a huge necessity, it needs to be able to get information to the users in a timely manner. The system should be monitored and updated as needed, maybe every couple of months.

#### 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?*

* I think that windows would be a good system for this application. It is a versatile and widely known platform so it would be easy for the users to pick up. A database would also be a necessary tool to support this application.

#### 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?*

* A username and password system would be a good way to distinguish between users. Both the usernames and passwords would be case sensitive. The system would inform the admin of a problem such as security breaches or account problems.

#### 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?*

* There will need to be the ability to make changes without changing the code. It will need to be versatile in order to handle platform updates. Also routinely updating the system will help with that as well.

#### 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?*

* A username and password will be needed to long in. There will be a limited amount of sign in attempts so that a person cannot keep trying passwords of an account that is not theirs. An admin will be able to unlock an account if it gets locked by incorrect password attempts. If a user forgets their password they will be able to user their email in order to reset it.

### 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 reserve driving lessons
* The system shall allow users to take practice tests
* The system shall maintain a schedule of drivers and users
* The system shall keep updated with DMV rules

### 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.)?*

* There will be users, admins, and drivers. Users will need access to the materials to get ready for their driver tests. Drivers need to be able to pair with users for practice drives. Admins will need to be able to handle security threats and help with an account troubles users may have.

### 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?*

* I am assuming that all users will have access to a web browser in order to access the application. I am also making the assumption that using a web based platform will cover all bases and allow the greatest variety of users to use the application.

### 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?*

* It seems to me that the main limitation will be time. As with many projects, there will always be more that could be done, more features to add, more refining to be done but there is only so much time to do these things.

### 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 with low confidence