# 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 project purpose is to build a DriverPass system that links and tracks its customers, it enables customers to buy a driving package that they choose that will give them access to online driving resources specific to the DMV requirements, have the ability to take online practice test that coincide with the DMV, and the ability to reserve driving lessons with an experienced driver.

### 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 DMV has reported that many people fail their drivers test to get their license. DriverPass could provide training and help people be better prepared for these tests at the DMV. DriverPass would provide online training and practice tests along with real-world on-the-road training to customers.
* The system needs a database for DriverPass.
* The system needs the ability to select different reservations and options.
* The system needs to store online driving resources and tests that are specific to the DMV requirements.
* The system needs to provide access to different users with different levels of security access.

DriverPass wants to provide better driver training. The components are:

**Computer component**

* Front end user interface – user logs into DriverPass system or registers with DriverPass.
* Backend database – user entered information is stored to the DriverPass database and different levels of security are applied to user.

**Human component**

* Face to face – planned and implemented pick up and drop off.
* Face to face – training packages are offered, planned and implemented for different levels of drivers.

### 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 be accessible on multiple platforms (PC, IOS, Android etc.)
* The system should be cloud based for online system storage and better security.
* The system should have different levels of access –

1. Admin- Complete accessibility
2. Internal User – Broad access for updating and modifying customer reservation and information as needed.
3. External User – regular system access as a customer, the ability to register, purchase packages, and the ability to make and update existing reservations.

* The system should allow reports to be created for internal users and administrators with the ability to save reports to excel.
* The system should be able to access a calendar to make reservations and link a driver and car to the customer for these reservations.
* The system should show 3 available packages for customers to purchase.
* The admin should have the ability to enable and disable packages as needed.
* The system should be able to sync with the DMV requirements, and a notification should be sent to Admins every time the DMV updates these requirements.

## 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 be cloud based for database access and storage.
* The system should react to user inquiries within two seconds.
* The system should be updated weekly to keep up with technological advances.

#### 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 run any PC (Windows, Linux, Mac, etc.)
* The system should run on any mobile device (Android, IOS, etc.)

#### 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 three levels of user access (admin, Internal users, and regular users)
* The login and password will be case sensitive.
* The admins will be notified of any system issues, error reports, malware, security issues, etc.

#### 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 and Internal users should be able to add, modify and remove users as needed.
* The system should be able to be updated with minimal expertise.
* The IT administrator should be able to access the system and update needed areas without coding.

#### 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?*

* Admins should have full access to system and login with username and password.
* Internal users should have a broad access to update, modify, and delete information of users. Logging in with username and password.
* Regular users should have basic access to the system to register and update or modify appointments and information as necessary. Login with username and password.
* Each user will have their own username and password specific to them and managed via Driverpass system to ensure no duplicates.
* The system will be able to have a forgot username or forgot password link on the login page.
* The system will lock a users account after three unsuccessful attempts to login.
* The admin and internal users will be notified of locked accounts.
* The users will be notified of locked accounts and be required to verify identity before admins or internal users are able to unlock accounts.
* The system should have proper security measures in place to ensure privacy and security for all users.
* The system should notify Admin of an malicious activity noted on the system.

### 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 verify User credentials when attempting to login to the system.
* The system shall link with the DriverPass database.
* The system shall be linked with the DMV for updated resources.

### 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.)?*

* Each user will have a user dashboard.
* Admin users will have full access to manage system as needed.
* Internal users will have broad access to Add, modify, and update users information as needed.
* Regular users will have access to register with the system, login to the system and access resources based in the system as needed.
* All users will have the capability to access the system from PC or mobile device upon login.

### 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 user interface is user friendly to where everyone and anyone can easily understand and operate the system.
* All users have internet access.
* The client has enough budget to cover work performed.

### 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?*

* Compatibility with certain web browsers could limit functionality.
* The one quarter time frame could be tight due to lack of people on the project.

### 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 graph

AI-generated content may be incorrect.