# 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 aim of this program is to help drivers pass their driving examinations.
* DriverPass is the client, and they want a platform that enables students to prepare for their driver's license examinations by giving exam prep. It is also required that they use this system to schedule their road exercise.

### 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 proprietor wants to be able to view data both online and offline from every location.
* The proprietor requires computer and mobile platform compatibility.
  1. Remodeling or editing data can only be done online to avoid redundant information being stored on various servers.
* The proprietor needs the ability to use Excel or comparable programs to obtain and examine results.
* All accounts must be accessible to the proprietor in their entirety.
  1. Passwords may be altered, accounts can be blocked, and activity logs can be printed and reviewed.
* The proprietor requires the option to get notifications on user bookings, cancellations, and other changes to driver training.
  1. The user must be able to utilize their account to arrange driving training by the date and timeframe.
     1. Just one of three options is available to the user.
        1. Driving training is just two hours long and is based on the program selected, and the courses are spaced across a timeframe.
     2. During registration, the user must be able to provide both first and last names, current address, contact number, state of residence, credit card details, credit card expiration date, and security code.
     3. The option to add pick-up and drop-off places is required by the user.
  2. The proprietor must be able to observe which instructor is most suited for the student, as well as the scheduled time and vehicle utilized.
  3. The proprietor requires the option to disable the option to pick packages, preventing any bookings from being placed.
* To keep the firm up to date, the proprietor needs to be able to get alerts about recent changes at the Department of motor vehicles.
  1. New regulations, guidelines, and sample questions would be included.
* This project must be completed using cloud technology.
* Both the proprietor and the user must be able to see and monitor their online test results, private details, driver's comments, driver's photograph, student's picture, and any special accommodations or requirements.
  1. The title of the exam, the period of time it took, the result, and the status should all be displayed on the test progression.
  2. The class time, the starting time, the completion time, and any driver remarks should all be included in the driver's remarks.
  3. The input form should allow students to enter their credentials and the owner's and student's contact details.

### 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?*

* Students should be able to take online mock examinations, book driving lessons via the cloud, track their progress, and make reservations online using the system.
* We need to think about how we'll organize and allocate each assignment. The gravity of the situation is crucial, and this will be our top focus.
* We must establish a schedule for when each work will be completed.

## 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 system would be run in a web-based environment for the benefit of the clients. To keep students pleased and prepare for their driving exams, the system must be able to handle many client accounts simultaneously. Administration employees must be able to access the database from web-based settings and locations other than the internet. Administrators should be able to change and view system data from any location, both online and offline. When the Department of Motor Vehicles notifies the DriverPass client of a revision, the system should be modified.

#### 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 software is required to run on both Windows and Mac OS X. The back-end tools, such as databases, will be provided using the cloud internet; the cloud will offer the capacity necessary to execute the program and the security and backup required to protect the clients' and customers' information from unauthorized solicitations.

#### 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?*

* Every user must have a unique username to be distinguished from other users; if a new user attempts to take a name that already has been allocated, the user will be prompted to choose a username that is not currently in use. The input can be case-sensitive to achieve maximum originality and avoid user-staff misunderstanding. Any account and fault concerns should be automatically reported to the system's administrator. This will keep the system current and operational for a more extended period of time.

#### 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?*

* To perform platform modifications and put the system back online, IT admin will require complete access. Administrative employees will also have complete control over the system, including the ability to delete or change current user accounts. The administrator, like all other users, will require a unique username and password to log in.

#### 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?*

* To obtain the information of the DriverPass system, every user, customer, and system employees, will require a login and password. The client has asked that the system run via the cloud to safeguard the data connection between the client and the server; this path provides the client and the system's customers with backup and enhanced protection. If a customer's account is compromised the account must be reset, or at the very least, the password reset, to prevent anybody from accessing the user's data. If a user forgets their credentials, the application's staff may schedule an appointment and reset the customer's login details, allowing them to access the site's content again.

### 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.”*

* Laptop and desktop PCs will be able to access the system.
* The system must incorporate the most recent DMV driving laws and regulations.
* The system must have unique usernames to ensure that no one is mistaken for another. When a user logs in, the system must verify their credentials.
* The system will include timetables to assist students in determining which available times are most convenient for them.
* The system should include practice exams and information to help students prepare for their driving tests. Individual progress reports for each kid will be included in the system, highlighting their strengths and faults.
* Trainer comments and feedback will be included in the system to ensure that the student has the most extraordinary educational experiences possible.
* As the system expands with more users, it will number updates. 
* User's accounts will be added, deleted, and updated as needed by the system.
* Security mechanisms must be included in the system to guarantee that accounts are not solicited.
* The system must have a simple user interface.
* The system will cover authorized instructors for consumers who are ready to drive.
* For client identification, the system will include user photographs.
* For the product owner or administrators, the system must be able to function both online and offline.

### 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.)?*

* Personal information about each user's account must be included in the interface required for various users. Student drivers and the application's employees will be among the program's various users. The program's workforce includes driver trainers, office workers who answer phones, schedule appointments, create accounts for clients, and anybody else who may have questions. Administrators must access the program to make modifications and updates to the system as needed. They would also adjust client profiles, such as removing profiles that are no longer needed by the system or adding customer accounts by the administrator. Moreover, the system's security team must be able to log in and verify that the security component of the system is free of defects. The security staff must be able to access the system and address any security concerns that arise.

### 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 implications I'm making regarding the users' technology include the requirement for each user to understand the laws of the road and practice and having a desktop or laptop computer. I also presume that each user has the financial means to purchase one of the DriverPass packages. I suppose that each user needs driver instruction to improve their driving skills. For certain users, however, this may not be the case.

### 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?*

* Users will not be allowed to use the program from their cellphones for some time since it will be created for personal computers and laptops. DriverPass will ultimately consider expanding its company to include other leading platforms. Although, for the time being, the program is only accessible for desktop and personal computers.

### 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, indoor

Description automatically generated