# 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?*

Our client on this project is the company DriverPass. The CEO Liam and IT Officer Ian are the main clients we are working for. They are wanting an app that helps students learn how to drive with driving tests that are online and with practice tests along with on the road training.

### 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 main requirement the client is looking for is the ability to access the data from the app from anywhere. That way their clients can download the data and study even when they do not have internet. They suggested Microsoft Excel which can be used through Microsoft 365 for the time being.

They also want their app to be secure and have backups which can be easily done with a cloud service such as Amazon Web Services.

Users should be able to make reservations and schedule appointments for testing by calling, walking in or even online using a schedule manager in the app. This will also allow the users to see which instructor they are paired with using which car. They should be able to see who might have cancelled the reservation along with who changed it last.

### 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?*

DriverPass wants there to be three main packages for users to choose from. These packages would be chosen based on the hours they would want to be trained for starting from 8 hours, then 10, and finally 12. They would be able to choose whether these lessons would be in person along with their access to the online classes. The ability to disable packages so users cannot buy them for various reasons is an important function to the client as well.

## 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?*

* There should be a server that the app connects to but DriverPass has requested that there be an offline version as well so that students can study if they do not have internet access.

The app should update when the DMV updates the laws and requirements for the tests

Loading fast and being able to show the pages and videos on the app are important.

#### 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 platforms this program should run on would be on phones like android and iOS as students will want to study on the go.

Keeping security on the cloud is a must since the CEO does not want to deal with it themselves.

Storing passwords and usernames in a database.

Webserver for processing requests.

Java and Springboot would likely be used to communicated with whichever cloud servers are used.

#### 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 have different usernames and passwords to differentiate them from other users.

Inputs need to be case sensitive.

There only needs to be three caregories for users IT,Owners, and secretary.

There needs to be the ability to see when someone modifies a reservation so when theyre made cancelled or modified and who made the modification need to be shown.

#### 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?*

* Things like changing passwords should be able to be done withour changing code. Changing modules for updates. IT needs to be able to change usernames and passwords to access the servers for status updates.

#### 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?*

Having different account types with different levels of access to the app would greatly help security.

The accounts should have usernames and passwords

Have a limit on the number of attempts to access an account that then locks the user out if they fail that amount of times.

### 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.”*

Users need to be able to change information like their address, name, phone number, credit card info, their password and appointment dates when necessary.

The practice exams need to be up to date with all the info necessary for the users to pass the test with things such as policies and requirements for passing tests.

### 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 users for this interface are the CEO Liam, the IT Officer Ian, their secretary, and other users.

Liam the CEO mentioned that he wants users to be able to manage appointments online. Scheduling them, changing their date, and cancelling them.

The users would call in and give information such as their name, number, address,state, credit card number, expiration date, and security code for the card.

### 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?*

* We have to assume the user has a phone or a laptop to get the DriverPass app on as well as an internet connection so they can download the app itself to get information on the practice tests.

The users also need to be able to get to appointments they set up for practice tests.

### 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 CEO needs to be able to add or remove modules while not knowing much about coding

The information needs to be stored on the cloud so security isn’t an issue

The app needs to be done by may 10th

### 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 project

AI-generated content may be incorrect.