# 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?*

* DriverPass is a company that wants to help students pass their driving tests.
* Training for their tests and practical driving will be given to their users to help them succeed in their actual tests

### 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 Problem DrierPass wants to fix is that 65% of their students fail their driving test.
* DriverPass is looking to give courses and practice tests to help students pass more often rather than having them constantly repeating tests and studying for tests using previous information instead of new updated info.

### 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 should be able to let customer schedule their appointments, make accounts, and take tests online.
* It should allow the addition and removal of training packages.
* It should be able to display the status of tests, the start, end, and comments left by the driver.
* Accounts should show the info of the customer like name, address, and email etc.
* As well as photos for students.

## 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?*

* Client wants to be able to access info from anywhere. Environment should be cloud based to avoid server issues.
* System needs to update with DMV database, so updates should be regular to keep with any changing needs.

#### 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?*

* System should be cloud based. Cloud will store info put in by users.
* System should work on multiple systems (Windows, Mac, etc.) and should also be accessible through mobile devices.

#### 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?*

* The users will be split into different types of users. One for Customers and one for administrators and employees.
* Passwords will be case sensitive.
* Issues should be sent to the IT officer responsible for maintaining the system.

#### 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?*

* The system should be able to change the user without code change being necessary.
* IT admin should be able to have access to the entire system, from users to maintenance.

#### 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 need a user id and a password.
* The connection between client and storage should be handled by the cloud.
* If a bad actor tries to brute force the client, the account should lock after multiple failed attempts.
* If the user forgets their password, they should be able to click on a “forgot password” option to get their password through an email authentication.

### 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 differentiate between employee and customer login credentials.
* The system shall allow a user to reset their password
* The system shall let users set up appointments for driving tests
* The system shall update automatically alongside the database for the DMV
* The system shall run on the cloud
* The System shall allow the IT Admin to do maintenance and change the system as needed
* The System shall allow drivers to see the status of their test, the start, end, and comments that have been left
* The system shall allow users to provide and update profile information

### 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 should be user friendly and easy to navigate for both customers and administrators
* Customers need access to set up driving courses, to see information about classes, and to update their profile information.
* Administrators should be able to see the schedule of appointments.
* The interface should change from mobile to browser to be viewable and easy to use.

### 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 are assuming that the user will have access to the internet.
* We are assuming that we will have sufficient drivers for any time period.
* We are assuming that users will use the mobile version of the site.
* We are assuming that we will have a dependable cloud database.

### 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 company has a fairly small team, comprised of the boss, the IT officer, and the secretary.
* There are ten drivers, each with a car.
* DriverPass does not know what future features it wants, so they may ask for something that could potentially cause a system clash.
* DriverPass provided a specific sketch of what they wanted their system to look like so the layout may need to be changed in the future.

### 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.*

