# 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?*

* To take advantage of a void in the market
* Training student drivers for their driving test
* Work with DMV for changes as needed
* Safer drivers and safer roads

### 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?*

* System to take tests and classes online
* On-the-road training
* Access data from anywhere
  + Modify data only online to avoid duplicates
* Identifies driver and customer
* Problem of helping students not fail test, and create safe drivers
* Requires:
  + Notes
  + Online Testing Progress
  + Student information
  + Additional needs
  + Driver photo
  + Student Photo

### 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?*

* Flexible system
* Ability to download things for offline use
  + Compatible with Excel
* Updates with reservations and cancellations
* Run on the cloud
* Notifications for Driver/Student
* Test Progress (such as times taken, scores, status, etc.)
* Input for general information (Name, Address, Payment type, etc.)

## 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 is web based; this is in the form of a website over the cloud.
* This should be fast enough to allow many users to access it without any issues with performance.
* Updated as needed to fix bugs or add features.

#### 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 is using the cloud to manage security which will take care of databases.
* Should run on Linux.

#### 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 be distinguished by username, password, etc. as most websites
* Input should be case sensitive to aid in security.
* System should inform admin if there are problems/bugs ASAP to get the website running properly.

#### 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?*

* Changes can be made using built in methods. The code will be set up to take changes when prompted. This won’t require code to be changed.
* System will bring in updates as needed based on feedback.
* IT admin will need access to everything within the system to make necessary changes and fix bugs.

#### 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?*

* User will need username/password to login.
* Cloud is responsible for data exchange.
* The account will be disabled in the event of “brute force” hacking.
* If the user forgets password, it will prompt the user to reset using email address.

### 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 book appointments as prompted
* The system shall provide tests and classes for practice
* The system shall offer 3 driving packages.
* The system shall show the driver paired with customer
* The system shall be efficient enough to run without bugs
* The system shall provide access based upon privileges (IT manager and owner have different privileges)
* The system shall show progress in tests, practice, etc. so the user can see their completed work.

### 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 provide the option to book appointments, the three driving packages, and to take classes/tests.
* The interface allows DriverPass employees to make changes and update as needed
* The user will be able to interact with interface from multiple types of devices (phones, computers, tablets) as long as there is internet connections available.

### 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?*

* There was no designated budget
* Making assumptions that all that will be done will be within the budget until specified.
* Assuming access to all needed technology easily and readily

### 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?*

* Time – See Gantt chart
* Number of people on team as resources

### Gantt Chart

