# 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?*

* **WHO**
* DriverPass
* **WHAT**
* System to give online classes for students training for drivers test
* Connected to DMV

### 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?*

* Reduce the number of bad drivers
* Give drivers online classes for driving
* Schedule two-hour driving sessions
* On the cloud for data

### 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?*

* Online updating and offline access
  + Download reports
* Changeable access
* Track reservations
  + Cancellations, changes, who, what, where, etc
* Customers can make reservations online using account or made over phone
  + Can also modify appointments
* Customers can pick a package
  + Packages should be able to be changed or altered by the boss
  + If package is more than two hours it will be separated into different two hour sessions
* Registration includes
  + First & Last name, address, phone #, state, credit card information
* Automatic “forgot password” system

## 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 will be on the web
  + Cloud preferably
* System updates should be immediate
  + To help with any changes or new additions

#### 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 run on cloud
  + This will give access to many platforms to reach more clients.
* Cloud base for easier maintenance

#### 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 should have unique accounts stored in safe system
* Users will have unique, case sensitive login information
* Admin should be notified immediately should issue arise.

#### 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?*

* Code should allow for changes in a user’s data
* Code should be adaptable to alterations in design as well
* IT admin Ian should have full access to systems to make changes and improve code.

#### 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?*

* Users will have unique login username and password
  + Case sensitive
* User has two step verification option
  + If password is lost reset can be sent to client email
* If multiple failed attempts, temporarily lockout and fix sent to other verification.

### 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 allow user changes
* The system shall allow user to create appointments
* The system shall track progress
* The system shall monitor and update system with current DMV rules and regulations
* The system shall send notifications to users

### 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.)?*

* Different users will either be client or administrator
* Client
  + Online test progress
  + Driver notes
  + Special needs
  + Driver Photo
  + Student Photo
  + Personal Information
    - Name
    - Address
    - Contact information
* Admin
  + Clients
  + Lesson times
  + Lesson modifications
  + Current packages

### 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?*

* System will not allow double booking
* Client will be able to access web
* Users will not share login information

### 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?*

* Assumed time frame will be valid.
* Access to cloud system
* Cloud will work with systems

### 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.*

