# 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 provide a service to customers
* The service is focused on driver education and 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?*

* Help create a better driver training education due to the number of people that fail driver tests
* Help with knowledge and skill based learning for driver education
* Provide practice tests and on-the-road training
* DriverPass wants the system to be web based and preferably over cloud

### 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?*

* Ability to access data online from any computer
* Download the reports and view offline on Excel
* Allow different roles for accounts such as administrator
  + Ability to reset accounts for passwords
  + Ability to remove account if someone leaves or is let go
  + Full access to system including IT officer and secretary roles
* Allow IT officer role
  + Able to maintain system
  + Modify system
* Allow secretary role
  + Able to create appointments
* Allow user Role:
  + Create, modify, cancel appoints as they wish
* Track reservations
  + Customers create reservations
  + See who modified, canceled, or removed a reservation
  + Print activity report
* Different packages for reservations
  + Reservations are lessons that last 2 hours long
  + 3 different packages that customer can choose from
    - Package one: 6 hours in car with a trainer
    - Package two: 8 hours in car with a trainer and an in-person lesson where they explain DMV rules and policies
    - Package three: 12 hours in car with a trainer, an in-person lesson where they explain DMV rules and policies, and access to online class with all the content and materials and practice tests.
  + Each session is 2 hours long so package one would need 3 reservations created to get all 6 hours.
  + Currently the company has 10 cars each with a driver
  + Ability to disable packages to no longer be able to be purchased
* Create a developer/ analyst role
  + Add or remove modules
* Registration requirements for reservations:
  + First name, last name, phone number, address, state
  + Credit card number, expiration date, security code
  + Customer requested pick up location and drop off location
    - Drop off should be same as pick up location
* Ability to connect to DMV for updates on rules and policies
* Web page layout:
  + Customer provided web page design
  + Logo center at top 6 modules below it
    - Top left module is test progress, displays progress on tests, scores, completed, time take, and status.
    - Bottom left module has driver notes module. Has a table where columns are lesson time, start hour, end hour, and driver comments
    - Top right module has user information such as first name last name, phone number, address, state, zip, email etc..
    - Middle right module has special needs module
    - Two modules centered below middle right module
      * Driver photo
      * And student photo

## 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 should be a web-based system.
* System should update when packages are removed or added
* System should update when users log in and purchase packages

#### 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?*

* Access to system via windows, mac, linux, ios, and android.
* Server ran off of a cloud

#### 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?*

* System should have case sensitive
* System should make admin modifications to user accounts

#### 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?*

* Can have owner add/remove/modify without changing code
* IT admin needs to be able to update system
* Modules able to be added or removed easily
* IT admin will need a developer access for updating

#### 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?*

* System requires roles to access sections of the system
* Only allow owner admin rights to modify passwords, and add or remove roles on users
* User needs to be able to update a forgotten password via email
* Require specific characteristics of passwords
* Account should be locked out incase of brute force hacking attempt

### 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 users to schedule sessions
* The system shall allow users to reset password
* The system shall allow users to take tests
* The system shall allow users to view scores
* The system shall allow owner to download reports
* The system shall allow users to create reservations
* The system shall allow secretaries to create reservations
* The System shall allow updates from DMV

### 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 user interface should be accessible by web browsers
* The user interface will include modules
* Different modules:
  + Logo
  + Online test progress
  + Driver notes
  + Informations (first name, last name, address…etc)
  + Special needs
  + Driver photo
  + Student photo

### 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 admin, owner and secretary will have different modules
* The admin module will allow downloading reports, and full access to information
  + This includes adding and removing roles
  + Tracking modifications of appointments
* Secretary’s interface will allow the creation and modification of appointments
* Allow IT admin to test, and update system
* May want to create a separate driver account

### 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?*

* Limited to less than 16 weeks
* Limited on number of drivers and cars for system
* Budget hasn’t been fully discussed
* Holiday month, plus resources limited till all members are back in office.

### Gantt Chart

Timeline

Description automatically generated