# 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?*

* This project is for our client DriverPass. The purpose is to provide better driver training for customers so they can pass the DMV driving 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 client asked us to build a system that will allow customers to take online classes/practice tests and schedule on-the-road training from one of three packages.
* The system will be stored and run from the cloud so the system administrator can access the data via the internet and focus on business needs.
* The system will be connected to the main DMV site so tests will be based on current DMV policies.

### 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?*

* The system will allow the user to create an account using their information (full name, address, phone number, state, DOB, and credit card information). Will also be able to automatically reset their password if forgotten.
* Users can schedule, modify, or cancel reservations for driving lessons using their account online or by visiting/calling the secretary. They will provide a date, time, and pickup location for their lesson. They can choose from one of three packages (System administrator can disable a package if necessary).
* The system will match the user with an available driver and car while keeping track of all this information (who made the reservation, canceled it, or modified it last).
* System administrator will be able to reset passwords or block users’ access. Can also download system log files and data to be used offline.
* The system will be connected to the DMV and notify the system administrator when they have an update.
* The user interface will show test progress (completed, in progress, test name, time taken, score, and status), driver notes (lesson time start and end, driver comments, etc.), special needs, driver photo, student photo, and user information.

## 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 run from a web site
* The system should be able to handle large loads of customers
* Each page will be loaded in under 10 seconds
* The site will be available 24/7
* It will be updated whenever there are new reservations

#### 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 system will run on a windows server
* There will be a database to hold all user account information and reservations

#### 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?*

* There will be three different user types (System Admin, IT admin, and normal user)
* Usernames will not be case sensitive. (Can input any variation of the username (john, John, or JoHn, etc...) but only one username will be created of that type (Can’t have 2 different users with name john and JOHN).)
* System will notify admin whenever an account is locked

#### 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?*

* Users can change and modify their reservations
* An IT admin can help users with password recovery and creating reservations and accounts
* System admin has permissions of IT admin and can disable the IT admins permissions, download the data from databases, and disable certain use packages.

#### 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 create a username and password to access the site
* System will lock account after 3 incorrect passwords attempts
* If user forgets their password, then they can recover it using their information provided at account creation or with assistance of an IT admin
* Site will use HTTPS encryption for all transactions

### 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 will allow user to create a username and password
* The system will validate user credentials when logging in.
* The system will allow users to create, cancel, or modify reservations based on availability and package selected
* The system will allow the IT admins to create user accounts and schedule reservations for different users
* The system will inform users of available drivers and time slots.

### 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 of the system will be normal customers, IT admins, and the System administrator.
* The user interface will show test progress (completed, in progress, test name, time taken, score, and status), driver notes (lesson time start and end, driver comments, etc.), special needs, driver photo, student photo, and user information.
* The users will be able to interact through any web browser (mobile and desktop).

### 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?*

* Users will have access to an internet connection

### 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?*

* Users will not be able to access the system while offline

### 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.*

