# 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?*

* The client “DriverPass” would like to have a system designed around their current business model. DriverPass offers driver tests and practice to students hoping to get their driver’s license from the DMV. The system that we design will allow them to expand their business to allow users access to online reservations, scheduling, and payments. The system will also allow DriverPass employees access to user data and schedules, and will handle scheduling of drivers to users.

### 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?*

* DriverPass has noticed a potential niche in the market, where drivers hoping to take their driver skills test at the DMV are ill-prepared and do not pass. Offering better practice tests and driver training, DriverPass hopes to capitalize on these user’s needs.
* A system to support this would require the ability to store user information in accounts, and allow those users to schedule driver tests or driving practice. The system will let users track their progress, and make payments online for the services they purchase. The system will also allow DriverPass to track its own employees and the cars they drive for training, as well as users and their data. The entire system will be cloud-based, and accessible from any type of device with an internet connection.

### 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?*

| **Objective** | **Task** |
| --- | --- |
| House a database of users | Create a function that allows users of the system to input personal information into a secure account that can be accessed via log-in.  Create a secure database that is housed in the cloud. |
| Intuitive User Interface | Get customer approval for overall design before user interface can be built  Create a UI that shows the client-user information about their account, including personal information and progress tracking, notes from their driver, scheduled services, and their photo  Create an admin UI that shows the admin-user options for scheduling, car selection, user payments processed, and other user client-user information |
| Automatic car/schedule matching for DriverPass employees | Create a function that organizes employees and cars that are currently at DriverPass.  Create a function that matches available employees with available cars and schedules them to train drivers on the user requested days. Allow users to override the automatic selection through modification function. |
| Roles for DriverPass employees | Create a parameter that distinguishes employee accounts from general user accounts.  Create a parameter for each type of employee that will be using the system and the permissions that go with that type. |
| Automatic system updates from DMV | Create a function that regularly checks for DMV updates via the DMV website/database.  Create a notification service that updates administrator accounts of DMV updates. |
| Cloud access for all users | Design the system to be used in the cloud.  Create a function to compile specific data sets to be downloaded to a csv spreadsheet file.  Create a function to upload modified data to the cloud and update cloud data with most recent modifications. |
| User profile interactions for scheduling, pay, etc. | Create a function that allows users to access their schedule of services purchased, make changes when necessary, cancel, or pay for services.  Users will be able to purchase any of three different packages offered.  Create a function that displays user progress on a “dashboard” type of user interface.  Create a service that connects to a map repository online for setting pick-up and drop-off locations when a user purchases a service. |
| Link DB to interface | Build UI per research gathered by Toni and Clark, prepare UI to be linked to DB |
| Test System | Testing team will use static and dynamic tests to ensure the system performs correctly (10 days) |
| Deliver a finished product | System testing with the test-team must be finished before the product can be delivered |

## 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?*

* [Insert text]

#### 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?*

* [Insert text]

#### 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?*

* [Insert text]

#### 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?*

* [Insert text]

#### 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?*

* [Insert text]

### 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.”*

* [Insert text]

### 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.)?*

* [Insert text]

### 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?*

* [Insert text]

### 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?*

* [Insert text]

### 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.*

[Insert chart]