# 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 is DriverPass. DriverPass wants to provide students with access to online practice exams and on-the-road training to better prepare them for 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?*

* DriverPass wants to be able to provide students with online and offline access to practice exams for DMV driving tests. The components needed for this system is a computer, and/or cellphone, and/or tablet/ipad.

### 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?*

To be able to take online classes and practice tests

* Provide them with on-the-road training
* Allow online and offline access to personal data
* Access data online from any computer or mobile device
* Download reports and certain information with applications like Excel
* Need to be able to identify the driver the customer is scheduled to go out with, since we have many drivers and many cars. We have to be able to track which user is matched up with a certain driver, time, and car.
* Should be able to make this reservation online using their account

## 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 application that connects to an online server but still have access to documents off-line if downloaded
* The application should be simple to navigate and just be able to display the different pages and videos, it needs to be fast page to page
* The system should be updated when the DMV has a change in policy and practices

#### 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?*

* Windows and Apple are the most popular systems
* Need a database to hold the records for users
* Springboot

#### 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 different users with login requirements username and password
* System will need to make sure their no duplicate login names already listed
* IT officer
* Customers
* Secretary
* Owner
* Input should be case sensitive
* Admin needs to be to keep track of reservations, who makes it, who cancels it, who modify it lasts
* If there are passwords resets needed, a need for users to update their information,

#### 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?*

* Yes, like resetting passwords and certain information from the users
* Adding or removing modules for a future release
* System will already have an add, remove, modify that will affect the users

#### 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?*

* Different access for different employees
* Passwords and usernames for everybody
* Ability to access accounts and block/restrict others

### 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 allow to change personal information like addresses and appointments if need be
* The system shall information for the practice exams
* The System needs to be kept up to date with what the DMV requires

### 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 head boss, Liam, is a user
* The IT officer, Ian
* Secretary
* I want the user to be able to make appointments, cancel, and modify appointments online if they wish
* The way the registration should happen is that we get a phone call, and then the customer gives us their information. This information would include their first name, last name, address, phone number, state, and their credit card number, expiration date, and security code.

### 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?*

* Different languages
* Colorblindness option
* Visual appealing and easy to navigate
* Won’t be able to work without electricity

### 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?*

* Adding or removing modules for a future release
* Resources will have to come what the development team already has
* Timeline is form 22-Jan to 10-May

Task Start Date End Date

Collect Requirements 22-Jan 4-Feb

Create Use Case Diagrams 11-Feb 18-Feb

Build Activity Diagrams for Each Use Case 15-Feb 9-Mar

Research User Interface Designs 27-Feb 7-Mar

Build Class Diagram 1-Mar 9-Mar

Get Customer Approval 10-Mar 11-Mar

Build Interface 12-Mar 24-Mar

Link DB to Interface 24-Mar 3-Apr

Build Business Logic 5-Apr 27-Apr

Test System 27-Apr 7-May

Deliver System 8-May 9-May

Sign-off Meeting 9-May 10-May

### 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.*

