# 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 the one who needs service in this scenario. The objective of DriverPass is to enhance students' preparation for driving examinations by enabling them to engage in behind-the-wheel training and giving them access to online practice tests that simulate real-world scenarios.

### 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 hopes to be able to give students access to DMV practice tests both online and offline so they may better prepare for their driving examinations. A computer, a mobile phone, and either a tablet or an iPad are required components for this system. Alternatively, all three may be used.

### 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 participate in online programs and get plenty of experience, offer them instructions that take place on actual roads. Make personal information accessible both online and offline. Get online access to the information from any computer or mobile device. Using programs such as Excel, you may download many reports and types of information. Given that we have a large number of customers and drivers, it is essential that we are able to determine which of our drivers will be transporting each individual consumer. It is necessary for us to be able to keep track of which user is associated with a certain driver, time, and vehicle. be able to make this reservation online by logging into 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 software component of the system that establishes a connection to a remote server yet maintains offline access to documents even after they have been downloaded. It should be easy to browse the application, and it should be able to display all of the different sites and videos. Additionally, the application should load quickly from page to page. When there is a shift in the DMV's policies and procedures, the system must to be brought up to date.

#### 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 most widely used operating systems are Apple and Microsoft Windows. It is necessary to have a database in order to store the users' records. UiPath, Pega Platform and Spring boot are all useful tools to use.

#### 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?*

* The software will have to check to make sure that there aren't any accounts with the same login name that have been created. It is necessary for the administrator to have the ability to maintain track of reservations, including who creates them, who cancels them, and who makes the most current changes to them. If there is a requirement for users to reset their passwords or update their information, the administrator should be able to do so, as well as reset users' secret passwords, if there is a requirement for users to change their passwords or 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, this includes changing users' passwords and collecting specific information from them. Adding or deleting modules in preparation for a future release The system will already have an add, delete, and edit function, which will have an impact on 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?*

* Access privileges varied depending on the employee. Everyone has passwords and usernames that are unique to them. Capability to access accounts while restricting or blocking access to others that don't have the correct permissions. Authentication to reset passwords using the “2-step” method to prevent unwanted access.

### 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.”*

* When the user logs in, the system will confirm the credentials that the user has provided, and it will also provide the user the ability to alter personal information such as addresses and appointments. The user has the ability to make a request to the system to provide them with information about sample tests. The requirements set forth by the DMV must, at all times, be brought up to date, since this will be the single most crucial component.

### 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 interface should be user-friendly and manageable. Tiered levels of access from Liam and the IT have the highest level of access to the end user having restricted access to only their personal space. IT should be able to control every detail of the interface down to the overall color and font while the end user should have the ability to update personal information and preferences.

### 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?*

* Support for a variety of languages
* An option for those who are colorblind.
* Appealing to the eye and simple to browse
* The requirement of an internet connection and supported hardware on the user end

### 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?*

* The time window for finishing everything up is barely five months long. A more frenetic pace will need to be maintained throughout the building and testing processes. After the release, it will not be possible to add or remove modules in an effective manner, which may result in a loss. Because it is impossible to anticipate movements in the market, which might lead to unexpected increases in costs, budgets will always come with constraints.