# 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 company, DriverPass, is looking for more ways to assist drivers passing the test.
* DriverPass is requesting assistance with creating a website that will be used as an online scheduling system as well as practice exams

### 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 is looking for a way to lessen the number of people that are not passing the driving test
* They require a reasonable amount of security features to be able to give each type of user different access to parts of the system
* The system needs to be accessible from a variety of devices as long as there is internet connectivity
* DriverPass is wanting to provide plenty of online practice exams and classes to assist drives, as well as an online booking system that links back to the company with ease

### 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?*

* DriverPass is wanting a completed system that should be up and running by the completion of the task. Customers should be able to book and cancel training, as well as utilize the practice test and classes via the website.
* The DriverPass system should only allow access to specific parts of the website based on different clearance levels
* Measurable tasks needed would be to create process and object models to assist in visualizing the system and show the customer our understanding of the requirements
* Languages and operating systems must be agreed upon prior to beginning

## 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 company is requesting all information be over the cloud in a web-based format
* Changes should be easy to make and upload to the cloud without disrupting the service
* DriverPass should be able to request changes be made to the site and they should be able to be easily carried out

#### 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 should be run on the cloud with full security behind it
* The platform that will be used is Linux

#### 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?*

* Users should have the ability to create their own username and password when attempting to use the website for the first time
  + Multi-factor authentication will assist in providing better security for the users
* Admin should receive messages regarding any problems to be able to solve them in a timely manner

#### 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?*

* There is no need to alter the source code to be able to add, update, or remove users
* IT administrators will have full access to the system to be able to make any necessary changes such as the deletion of accounts for people no longer employed with DriverPass

#### 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?*

* Username and password will need to be created by a new user
* Multi-factor authentication must be set up upon initial login, which will be used going forward
* All information between the client and server will be stored within the cloud
* There should be a set number of tries, such as three before the system should disable an account to prevent “brute force” attacks
* If a user does not remember their password, they will be required to utilize their email to have a reset link sent to the address

### 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 create booking reservations when started by a user.
* The system shall offer multiple driving packages.
* The system shall determine the user's credentials and what type of access the user should have based on that
* The system shall provide users with practice tests and classes

### 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 should be able to login into the website and make reservations
* The user should also be able to take online classes and tests
* The interface should allow for DriverPass employees to login into the website and make changes as needed
* The user should be able to access the website from anywhere as long as there is an internet connection

### 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?*

* We have made the assumption that this project can be funded no matter the cost
* We have also made the assumption that the company can acquire any equipment or technology needed with ease

### 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?*

* We have not been given a budget, but we have been given approximately 5 months to build the entire system
* We will need additional people on the team to assist with creating the website

### 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.*

