# 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’s goal is to provide students with online practice exams and on-the-road training to prepare them for their driving exams and wants my company to help them meet these needs by designing a program where users can access online and be able to download documents to use offline.

### 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 the system to be able to provide online practice exams, classes, and to be able to make appointments and purchase/modify offered packages which include on-road training. The system should allow access to the data online from any computer or mobile device and include the ability to download documents to work on offline. The security for the system should allow access to different users and allow some members of the company full access to be able to reset passwords if needed. The system should track appointments and allow users and the secretary the ability to make/cancel/modify appointments.

### 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 should have a functioning website which allows customers to make, modify, and cancel appointments online for on-road driving training.
* The system should allow users to take practice exams and attend online classes.
* Employees should have full access to make changes to appointments if needed and to reset users’ passwords if needed.
* UML diagrams and models should be used when planning the system. Also, an operating platform, and programming languages need to be selected for the system.

## 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 should run over the cloud (be web based), should run fast enough to allow access to the website and make changes to appointments, and should be updated as requested by the client (when seeking new features).

#### 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 platforms should work on windows, mac, mobile devices. The client wants it to be able to be accessed on any computer or mobile device. The cloud should be able to manage the databases required for the back end.

#### 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?*

* Each user should be able to create their own account with a username and password. The input should be case sensitive. The system should immediately inform the admin if a problem occurs so that they can be resolved quickly.

#### 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, the system should allow you to make changes to the user without changing code. When the client wants new features, the updates will begin and gradually be introduced to the system. The IT admin will need full access to be able to make changes, reset passwords, or remove employees or 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?*

* In order to log in, the user will be required to enter a username and password. The cloud will help in securing the data exchange between the client and server. If there is a “brute force” hacking attempt, the system should disable the account after multiple incorrect logins. If the user forgets their password, they will be prompted to enter their email or phone number used to create their account and will be sent a link to reset the account.

### 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 provide practice exams and online classes.
* The system shall enter reservations made online by the user or by the secretary.
* The system shall offer three different driving packages that can be modified by the user.
* The system shall display to the user their driving instructor, notes made by the instructor, and their progress in their program package.
* The system shall run fast/efficient.
* The system shall allow full access to the IT admin.

### 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 needs to be able to provide the ability to make reservations, take online classes, and practice exams.
* DriverPass employs must be able to make changes and update the system.
* The user should interact with the interface via mobile device, or any computer with online access.
* The different users of the interface include employees of DriverPass, and their customers.

### 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?*

* I would assume that there would be a budget involved in the design.

### 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 frame without a known budget is a limitation.

### 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.*

