# 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 a small business that has a plan to help drivers pass their driving test. They want a website for students to take practice exams and to schedule on the road driving instruction.

### 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?*

* The client wants us to build a system where customers can sign up for one of three packages for driving lessons
* The client wants the customer to be able to make a reservation for a lesson online or over the phone
* The system will have online tests and show test results such as passed, failed, not attempted
* The system will provide a way for customers to reach out to DriverPass and for DriverPass to contact the customer.
* The system will also need to show past lessons and any comments left by the driver for the customer to see.

### 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 will provide customers with the following functions:
  + Make and modify a reservation
  + Take online classes and practice tests
  + Create an account
  + Pick a lesson package
* The system will provide DriverPass with the following functions:
  + Make a reservation for customers who want to make reservations over the phone
  + Leave comments for customers after a driving lesson
  + Communicate with the customer
  + Provide roles for each employee with permissions
  + View who made changes to reservations and when they made them
  + Assign drivers with customers for lessons
  + Ability to add new users and reset passwords for employees and customers

## 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?*

* Web based system. It has to run in windows, linux, mac and mobile operating systems.
* Cloud Based
* Secure
* High speed

#### 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 run on all major operating systems.
* The back end will run on a cloud.

#### 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 will have their own username and password.
* Passwords will be case sensitive.
* Admin should be informed of any issues immediately so that any issues will be fixed as soon as possible.

#### 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?*

* Admin will be able to make changes to users.
* System will update when important changes are made and when new features are added.
* IT needs access to the full system

#### 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?*

* User will require a username and password.
* Account will lock and need admin to unlock after a brute force hack or when password is entered wrong 5 times.
* There will be a forgot my password link to recover my password.
* Data will be managed through the cloud.

### 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 book reservations for the user.
* The system shall show offer practice tests.
* The system shall show users test results.
* The system shall be fast and efficient.
* The system shall allow users to view reservations.
* The system shall show which driver the customer will be driving with.
* The system shall offer 3 different packages.

### 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.)?*

* Customers and admin are the users
* Customers need to be able to make, check, change and cancel reservations and take tests. They also need to be able to view test results
* Admin needs to be able to view reservations and allow for changes to the system and to leave comments on students they drove with.
* Users will be interacting through computers, and mobile devices.

### 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?*

* There was no budget given so all the features are assumed to be in the budget.
* It is assumed that users have the required technology browse the website.

### 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?*

* No budget was discussed.
* It is planned to have completed in under 5 months.
* Needs internet connection to function.

### 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.*

