# 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, DriverPass, wants a system that will greatly revolutionize how student prepare for their driving exams. The system will feature online classes and practice tests, along with on the road practice sessions.

### 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 system will feature online classes, practice tests, and road time with students. This system will solve the issue of a low pass rate for driving licensing exams.
* The system will need to be able to be accessed offline, although not writable offline.
* System will need to be cloud based.

### 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?*

* Reports must be downloadable to Excel.
* Administrative security features.
* Calendar feature to set/modify appointment slots.
* Allow user input for information.
* System will feature 3 different packages.
* Each package is still two hours in length of appointment time.

## 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?*

* This system will operate through the cloud.
  + Website will be web-based.
  + Allows users to access from anywhere.
* New features that are implemented will be updated to the website immediately.
* System will run very quickly since it will be cloud based.

#### 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?*

* Since this system is cloud based, it should be able to run on most widely used platforms.
  + Windows, MacOS, Linux, etc.
* It will be accessible for mobile users with a mobile browser.

#### 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 in each session will be tracked via cookies and this is how we can differentiate them.
* Password will be an input that will be case sensitive.
* Admin will be informed daily for errors and other outage alerts.

#### 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?*

* The database and servers will be accessible to IT admin and staff.
  + Admin will have access to user interfaces and data.
* Users will not be able to make changes to code.
* Application will remain updated.

#### 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?*

* Password, Two Factor Authentication, new password every 12 weeks, new password required after 5 failed login attempts.

### 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.”*

* Validating users
* Send verification to user’s phone through text messages or email
* Tracking and scheduling appointments
* Requesting new password after failing 5 logins consecutively

### 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.)?*

* Interface will be web-based
* Users can access the website and their order information
* Admins will be able to schedule appointments for users

### 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?*

* Users have access to internet connection, possess a phone with sms capabilities and email access

### 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?*

* Minimum of 14 weeks of time to complete
* Must be able to be used on other browsers – safari, firefox, etc.

### 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.*

Chart, timeline

Description automatically generated