# 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?*

* Our client is DriverPass, a company which aims to prepare students for their driving test by providing them with access to practice exams and on-the-road training. They need a system to manage these classes and quizzes. As well as requests for on-the-road driving practice.

### 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 aims to solve the problem of too many students failing their drivers test in their first attempt.
* They noticed a void in the market for comprehensive driving instruction and practice for students trying to get their license.
* As for components, they need a dynamic website and app for company administrators, instructors, and students to use.

### 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?*

* There needs to be instruction videos and quizzes for students
* There should be administrative reporting functions on the statistics for the app
* There needs to be a calendar/scheduling function for the instructors and students to reserve driving time.
* There should be automated scheduling notifications
* There should be the ability for user to track progress.

## 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 use a cloud platform so the website will be web based
* The system should be fast enough to allow multiple users to operate on website concurrently without delays
* The system should be updated every time new features are added.

#### 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 have cross platform functionality and run on Linux as well as Windows
* The system must have a cloud-based database that info can be drawn from and security tools
* The system should have mobile phone browser functionality

#### 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?*

* Unique usernames will help distinguish between different users. Passwords and usernames are case sensitive
* Cookies can also help distinguish between users on the back end
* The system should inform admin immediately of any errors.

#### 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?*

* IT admin must have access to database and server to add/remove/modify user and employee access
* System should keep top performance after updates and report glitches to admin

#### 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?*

* Users must create username and password for accessing the website.
* The system should offer multi-factor authentication using sms
* System should have a functionality for user resetting password if forgotten
* System should include Captcha for confirming user is not a robot
* To prevent “brute force” attacks the system should disable accounts after 4 failed attempts tp login

### 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.”*

* DriverPass wants the system we design to be accessible online from any computer and mobile device.
* They need to be able to access data and pull reports from the system, preferably export reports to excel at home.
* For system security, different employees need different roles and access to the system. There also needs to be a tracking/key logging functionality so Liam, the owner, can know who made a reservation, who canceled it, and who modified it last.
* DriverPass customers need to have individual accounts and to be able to make reservations with their accounts online for driving practice with the company “Driver”.
* This system should include a schedule format and tracking process so the owner, and employees with access, know which user is matched up with a certain driver, time, and car. The company has 10 cars and 10 drivers.
* Design 3 packages for customers to purchase. Include payment system and a way for Liam to disable a package so no more students can register for it.
  + Package One: Six hours in a car with a trainer
  + Package Two: Eight hours in a car with a trainer and an in-person lesson where we explain the DMV rules and policies
  + Package Three: Twelve hours in a car with a trainer, an in-person lesson where we explain the DMV rules and policies—plus access to our online class with all the content and material. The online class also includes practice tests.
* Provide option for customers to reset password, so they can keep up with their schedule
* System needs to run over the internet using cloud storage, cloud servers, and cloud backup.
* Connect their System with local DMV of wherever its accessed so they can get notifications when there are policy changes.
* The Interface design:

A sketch of a test

AI-generated content may be incorrect.

Driver Notes should include a table with columns for “Lesson Time”, ”Start Hour”, ”End Hour”, and ”Driver Comments”

### 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 web based and functional on any device with internet connection (cell phone, laptop, etc)
* The interface should have 3 types of users: customer, driver, and administrator
* Customers need to purchase driving packages as well as taking classes and tests on the website
* The Drivers need the ability to manage their schedules and communicate with admin and customers
* The Administrators need to make appointments for customers and communicate with drivers

### 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 assume all different types of users will be able to access and understand system
* It’s assumed all the users have access to technology

### 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 a time limit of 5 months to build system
* Budget was not explicitly mentioned but should be kept in mind for future conversations
* System must be compatible with all browsers

### 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.*

A diagram with multiple colored boxes

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