# 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?*

* Liam is hoping to take advantage of a void in the market when it comes to training students for the driving test at their local Department of Motor Vehicles (DMV) with DriverPass

### 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 offer online courses and practice tests that students have access to
* DriverPass wants the system to allow students to be able to schedule in person driver assisted practices

### 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?*

* Students should be able to register with DriverPass
* Students should be able to select one of three packages (Package 1, Package 2, or Package 3)
* Students should be able to make, change, and/or cancel reservations

## 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 will be web-based
* The system should be accessible online and offline, but data cannot be altered unless the user is online
* Since the system will be conducting practice tests and online courses, it should run rather quickly

#### 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 able to run on mobile devices and computers
* The system will require a cloud storage solution to store and manage the information of students, employees, course materials, and schedules

#### 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?*

* The system will function with role assignments to distinguish between students and employees
* The IT officer Ian, will be responsible for creating and managing employee accounts
* The system should allow authorized employees to alter student information
* The system should alert the administrator if certain actions are taken, such as student or employee account alteration or deletion by an employee

#### 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 IT administrator should have enough access to manage all employee and student accounts
* The system should be designed to support the addition or subtraction of packages and features

#### 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?*

* All accounts will be secured via a password
* If a user attempts to log in more than five times unsuccessfully, their account will be locked for 30 minutes and an alert sent to their email address of the log in attempts
* If the user still cannot correctly log in for another five tries after 30 minutes, the account will be locked and the service desk will need to be contacted for a password reset
* For employee accounts, only the IT administrator will be able to reset passwords

### 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 offer students access to online courses and practice tests
* The system shall offer students one of three packages
* The system shall allow students to make, alter, or cancel appointments for in person driving practice
* The system shall allow employees to register new students
* The system shall allow drivers to view their upcoming appointments with various students
* The system shall allow drivers to request changes to upcoming appointments

### 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 interface should be interactable via computer and mobile devices (so the system should work with a mouse and keyboard, or a touchscreen)
* The user interface for students should display their progress in their online courses as well as their tests
* The user interface for students should display their schedule for in person driving tests
* The user interface for students should allow them to report drivers for any number of reasons
* The user interface for drivers should display their upcoming schedule and with what students
* The user interface for drivers should allow them to leave comments on/report each student

### 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?*

* The users should have an internet connection to be able to alter data
* The users should have access to devices that can run the web-based system

### 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 system design will be limited to the current scope as more elements will be added later on
* The system design being web-based will limit the audience and the features that can be added to the system

### 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