# 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 Liam who is the owner of DriverPass. They want their system to be able to help their students take their drivers and pass at the DMV. Their purpose is to create a better driver training system.

### 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 to address the problem of the multiple failures of the driving tests at the DMV.
* They wish to create a structured training course in order for their students to take the exam and pass.
* The system must include online practice tests, offline access instead of relying on the cloud interface, security to protect private data, and access private information based on the roles of the employees.

### 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 allow customers to register on the course and choose their package, and the administrator should be able to disable a package if the package is already full.
* The system should track student progress by showing the status of each test, whether they pass, fail, or the test is in progress.
* The system should keep track of who’s the student is paired up with, what car they’re driving, and what time is scheduled for the driving lessons.
* The system should allow administrative staff to manage users, schedules, and payments.

## 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 be a web-based application that can be accessed by browsers.
* The system should be updated monthly.
* The system should run at a quick 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 a browser. Browsers such as Microsoft Edge, Chrome, Explorer, or Firefox.
* The backend would require a database to store all the user’s information.

#### 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?*

* There will be a section to choose whether the user is an administrator or student..
* The input will be case-sensitive.
* The system should inform the admin of a problem when the user inputs the incorrect information after a certain number of attempts.

#### 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 system should definitely be able to add, remove, and modify packages and uses without changing the code.
* The system will adapt to platform updates.

#### 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?*

* A username and a password will be required to log in.
* The connection between the client and the server will be secured with the use of a two-factor authentication 2FA.
* If there’s a brute force hacking attempt, the account should be frozen until the administration resolves the hacking issue.
* If the user forgets their password, then the user should click on forgot password so that they can enter their email and have the administrator send them an email to reset their password.

### 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 allow users to access the course content
* The system shall let users reset their passwords if they forget.
* The system shall let users select a course package.
* The system shall keep track of the user’s progress.
* The system shall validate users credentials when logging in.
* The system shall allow users to make payments for the courses.
* The system shall allow users to schedule when to take the test at the DMV.
* The system shall keep track of all the user’s information in the form of a database for the administrator.
* The system shall provide the users with contact information to the administration when a problem arises.

### 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 must connect to all different types of devices, whether its through a laptop/desktop or mobile.
* Each user must be able to login through a username and a password, provide a code via 2FA for more verification.
* Each user should view their progress such as their test progress and scores, view their lesson dates and times.
* Each user should have access to all of the learning tools for the course.
* The administration should be able to check on who’s registered on the course, which package each user chooses, what time the users selected for the courses and the exam dates, and times. The administration should also allow users to reset passwords if they happen to forget theirs.

### 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 system will be accessible 24/7
* Every single user has a stable internet connection to access the system.
* Every user knows how to work the computer and knows how to access DriverPass’s blackboard.
* Every driver will make it to each driving lesson and on time.

### 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 will require a stable internet connection for everyone to access.
* Time and budget will be a limitation, and it depends on what the user is willing to pay for whatever package they desire and the time they wish to attend the lesson and the test.
* Since DriverPass is preparing customers to take their tests at the DMV, DriverPass must adhere to the materials that are based off the DMV’s guidelines.

### 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 of a project

AI-generated content may be incorrect.