# 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?*

* Purpose is to take advantage of a void in the market when it comes to training students for the driving test at their local DMV.
* The client is driver pass, we met with Liam the owner and Ian, their IT officer.
* Liam wants the system to be able to give customers a better online learning experience and offer on-the-road training.

### 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 needs to be able to give customer online learning on driving tests and dmv policies and rules
* They want to fix a problem when it comes to new drivers not having enough learning experience.
* System must be web-based, and it must allow them to access the data from anywhere

### 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 must be able to allow customers to register for packages and be able to make driving lesson reservations
* Liam wants to be able to disable packages whenever he wants
* It must be connected to the DMV so they have the latest DMV rules
* System must be able to download reports
* It must also have activity reports
* They must be able to register new customer and be able to put their information in.

## 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 needs to run both online and offline
* System should be web-based so that more than one person can be in the system at once
* System needs to run fast enough to be able to keep up with updates from multiple users
* The system should be updated every time a change is made so that it saves the information, any big updates that will change the system design or interface should be scheduled.
* Owner wants to be able to download an offline report

#### 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 it will be a web-based system, the platform does not matter, it can run in Windows as well as macOS.
* The system will need to have a database of all the student’s information and all employees information, this database needs to be available to be downloaded.
* This database must be secured to prevent any outside hackers.

#### 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?*

* We should implement a username and password for each user, and the password should be ciphered ones it is entered
* If we use input case-sensitive it will give more security to the users
* If any problems were to happen the system should immediately inform an admin so that it can be fixed ASAP.

#### 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?*

* Since we are going to have a database for the back end system, if we were to remove/add/modify a user, we would only need to access the database and not change the whole code, this would not be practical since it could happen various times.
* The system should be able to update without restarting the system, if any big updates were to happen it should be informed and scheduled.
* An IT admin should be allowed to update any users information such as reservations, course progress and more.

#### 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?*

* The user will need a username and password to log in, with input case-sensitive and for extra security it should prompt for a 2-step verification every time they log in.
* We will have a third-party cloud service that will take care of the security between the user and the server.
* If there was a “brute-force” hacking attempt, the account should be locked, it will send an email to both an admin and the user of the attempt and require a password change.
* If a user forgets their password, they can reset the password through their email.

### 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 have access to the database for every user that logs in.
* The system shall be able to book reservation for users
* The system shall be able to change a course progress
* The system shall provide all available courses and tests
* The system shall show what driver the student is paired to and what time and date the reservation is
* The system shall show all three course offers to the user
* The system shall be able to disable packages
* The system shall be connected to DMV to keep up with recent rule changes
* The system shall provide registration information
* The system shall provide driver notes, driver photo, student photo and student information

### 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 should show available classes, and reservation times to the user
* It should be able to show information specific to the user, admin, or student
* Each user should be able to check their course progress, see their current reservations, future reservations and more
* The user will interact through a mobile phone, computer or anything that has web availability

### 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 every user has access to the web
* We also assume that we have the budget to be able to complete the project
* We assume that every user will be able to easily understand the interface

### 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 only have a couple of months to complete the project
* We don’t know the budget needed to complete the project
* We don’t know how well the system will work on every platform

### 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.*

