# 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 DriverPass wants us to develop a system that can offer future drivers practice with in-car driving training.
* DriverPass will also offer online testing to ensure their students pass their driving test the first time.

### 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 ensure more students taking a driving test for the first-time pass
* Their system server needs to be cloud based so the owner can access data from their system to download and work on at home
* System must allow for users to register for an appointment online.
* Our system must accept user input for information, first name, last name, address, telephone number, State, CC #, expiration date, CVV, pick-up, and drop-off locations.
* DriverPass must be able to connect to the DMV to have current rules and regulations of the road, the system will send a notification when there is an update.
* Our system must show the user three separate packages that they can choose from.
* The system must also allow Liam, the owner to remove these packages, as necessary.
* DriverPass system must offer online course materials such as readings and practice tests.

### 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?*

* Once complete there will be a homepage where the user can look at their progress from the DriverPass course, practice tests scores, their user info, driver notes, special needs, driver photo, and a student photo.
* User must be able to reset their password if they have forgotten it.
* User will be able to make reservations as well as edit their schedule, as necessary.
* System will track and update all information from students DriverPass training.
* Our system will have a library of all DMV rules and regulations and training for the students.
* Allow for certain employee roles, Ie. Ian to access the system for maintenance.

## 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 needs to be web-based with a cloud server
* The system should run fast enough that users can make purchases and their orders be transmitted immediately
* The system should have updates whenever our client wants to add in new features, these new features will require the system to update with each new feature.

#### 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?*

* This system should be running on Windows
* Our back-end requirements will be fulfilled by the cloud to manage and store data. No server memory requirements will be necessary.

#### 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 will have a personal profile, this feature will enable users to create usernames and profiles linked to their email and personal information, this is how we will distinguish between users.
* The system will be case sensitive to ensure more security, we will also implement two factor authentication to ensure safety of our users’ information.
* If there is a problem in the system admin will be notified immediately to correct the issue.

#### 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?*

* You will be able to make changes to users without changing the code.
* When there are platform updates for DriverPass there will be system updates as well.
* IT will have full access to the system, this will allow them to make appropriate changes as needed as well as fix any problems and update the system.

#### 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?*

* When logging in users will need a username and password, we will also implement two factor authentication such as security questions or a text confirmation.
* Our cloud server will be responsible for secure data exchange between the client and server, implementing secure coded information.
* If there is a brute force hacking attempt our system will temporarily lock that account out from the system until our IT can resolve the problem.
* If a user forgets their password, we will send the original email a message with a link to reset their password and personal information.

### 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.”*

* Validate user credentials
* Offer practice exams and tests
* Allow users to make reservations
* Allow users to choose between different driving packages
* Offer three driving packages
* Show who the instructor will be
* Smooth Operation
* Give a view of what the user has already completed and what to complete next
* System will give access based on user privileges

### 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 will need to be able to offer a user to pick between multiple driving packages, choose an instructor (if available) and make reservations, also user interface will need to offer classes and exams for our users.
* Employees of DriverPass will have to be able to have limited access to the system so they can input test grades and instructor notes.
* Our users will be able to access the interface with any device that has access to the internet.

### 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 were never given an accurate budget for how much we are allowed to spend in the system, we then must assume that we have enough resources to implement the system that we must develop. We are also assuming that all the technology we need or will need will either be provided or paid for when developing this system, as well as access to cloud servers and any environment we need.

### 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?*

* There is a time limitation on this project, we were given about five months to implement this system.
* We are unsure of the resource limitation because we were never given a budget
* We may not have a large enough team to accomplish this task in the time frame

### 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.*

Gantt Chart is on following page

*Chart

Description automatically generated*