# 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: To provide the students with much needed classes, practice, and training before taking online/in car driving tests. Client of project is DriverPass, they want their system to display the students info, what they have completed/what they need to complete. For in car training they will require notes from instructors.

### 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 will require that the system in place will help better prepare students for their driving test. This includes the exam and in car exam. The problem at play is too many are failing their tests.

system needs to handle all training.

**Components**

-**online classes**

-**Online practice tests**( online test progress should show the tests the customer took. It should show

what’s in progress and the ones that the customer completed. So, it would say something like test

name, time taken, score, and status. The status could be not taken, in progress, failed, or passed.)

-**on road training**(Driver Notes:

Lesson time, start hour, end hour, driver comments, pick up/drop off locations)

-**System scheduler for road training** (customers need to be able to make reservations for driving lessons. lessons are two hours, customers set time.

who are they going out with? what car is being taken? What time? Pickup location/drop off location?

Packages to choose for training, We have **10 cars and drivers/trainers**

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.)

-**Registry for users** (This information would include their first name, last name, address, phone

number, state, and their credit card number, expiration date, and security code)

### 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 provide all that is needed for student drivers to accomplish given objectives before taking their driving test. Measurable tasks include: Online classes, practice tests, and in car driving practice

## 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?*

* It was requested that this systems environment will run web based/cloud based. This system should be able to handle various students at an optimized rate. Staffing will need access from web based environment as well as the ability to manage data and download as needed. System should have DMV requirements updated on real time or as needed with DMV

#### 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?*

* It was requested that this should be accessible from any computer or mobile device. If we are running this as a web based platform this should not be an issue. Assuming we are dealing with data sets such as customers/students we will need some sort of data base to handle the data. Along with archiving classes/ their materials/tests ect.

#### 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?*

* To distinguish between users in our database and apon registration we can assign them with unique identifiers or an ID. Input for users doesn’t necessarily need to be case sensitive, we can have users log in with ID, or email. If there is an issue we can set up automated messaged to admins to deal with in real time

#### 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 admins/staff will have full control over user access to add/remove/modify as needed. We can set platform updates with set down times.

#### 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, both customer and staff, will need a username(email/ID) and a password in order to access the content of the DriverPass system. To secure the information connection between the client and the server, the client has requested that the system runs over the cloud/web. This allows for backup and additional security to the client and the customers of the system. Should a customers account be “hacked” or broken into, the clients account should be reset, or in the least, the password should be reset to keep anyone from soliciting the customers information. Should a user forget their password, the staff of the application have the ability to make and appointment and reset the customers password so that he/she can regain access to the sites content.

### 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 be accessible through computers and mobile devices.
* The system shall include up-to-date DMV driving policies and regulations.
* The system shall incorporate unique user names to ensure that no one is confused for another.
* The system shall involve validating user credentials when logging in.
* The system shall contain schedules to help students decide which available times work best for them.
* The system shall encompass easy to understand layout for users.
* The system shall cover available trainers for customers ready for driving sessions.
* The system shall involve user pictures for customer distinction.
* The system shall be able to work online and offline for product owner or administrative staff.
* The system shall contain practice tests and information for the student to study and practice for their driving test.
* The system shall cover individual progress reports for each of the students to highlight their strengths and weaknesses.
* The system shall number updates as it grows with new users.
* The system shall add new/delete/update customer accounts on as needed basis.
* The system shall comprise of security protocols to ensure that accounts are not solicited.
* The system shall contain trainer notes and feedback to ensure that the student gets the best learning experience.

### 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 needed must include personal information of each user to their account. The different users within the program will include students, and the staff of the application; More specifically, the staff of the program include the driver trainers, office staff to answer phone calls and make appointments and create accounts for customers, and answer any questions that someone might have; Administrators need to be able to log into the application to go in and make changes and updates to the system when needed; They would also make changes to customer profile by deleting profile that are no longer needing the system, or the administrator can add customer accounts. Finally, the security team of the system need to be able to log in and make sure there are no bugs in the security part of the system. The security team needs to be able to go in and fix any security issues that come up as the system runs.

### 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?*

* One assumption is that all of the users need to learn the rules of the road and to have practice, while also having a desktop or laptop. Everyone may have different need that need to be met and that’s why we need to be flexible to have what ever offers they 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?*

* As this will presumably be web based or cloud based, initially this might be built towards pc. This still means it will be mobile accessible just not as UI-friendly.

### 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.*

