# SNHU logo

# 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 *DriverPass*
* The purpose of this project is to provide additional training (if needed) in preparation for their driving test.
* Clients’ requirements consist of the system being accessible online, providing the option of:
  + - Online classes
    - Practice Test
    - On-the-road training
    - Choice from optional training packages (1-3)

### 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 capable of being accessed on the web from both mobile devices and computers.
* Allows customers to both set-up and access personal accounts.
* Reset password \*\*\*
* Include and maintain customers personal information on file.
* Receive notifications based on:
  + Customers Scheduling appointments by desired date/time
  + Customers remaining applicable of canceling future appointments
* Consistently notified and updated based on DMW requirements

### 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 the desired System is completed, the following application shall persist of:
  + Ability for the consumer to create a new account
  + Allowing customers to sign-in from multiple platforms (Computers & Mobile–Devices)
  + Choosing a plan/package based on customers desires.
* Inputting personal information such as:
  + First name, Last name, address, Phone-number, state, credit card number details.
* The system will notify DrivePass based on:
  + Scheduling appointment at any-time/date
  + Cancelation of future consultations
  + Most relevant and up to date DMV requirements
* The application shall also provide and online test progress displaying:
  + - Test progress
    - Current status
    - Specifications on name, time, score.
    - Compatibility for the driver to input notes and any additional comments.

## 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 is important for the system to run on numerous major platforms. This enables ease access of information any place anywhere. This way, the system can run on; IOS, Android and Web Browser
* The speed of the system is very critical, for instance, the system should be faster and in case the information is updated on the web browser, there is a possibility of being seen on different applications.
* Besides, the system should be updated on a regular basis depending with the need. For instance, the system should be updated when there is a new update, reports of crashing and in case new laws or regulations are put into place.

#### 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 IOS, Android and Web Browser platforms
* The back end can be designed or set up where the system uses web browser since the web browser will have the whole information. Besides, various applications from different platforms including Android and IOS will absorb information directly from the web browser

#### 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 different users, the system will require each and every user to have a distinct user name as well as the password way before even accessing the information
* The input must be case-sensitive with the intention of providing more security to passwords
* Besides, the system will be set to inform the admins of a problem in case there is a third attempt in signing in
  + This way, the system will inform the admins and a request for a password reset will be made. The system will then provide request answer to the questions

#### 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?*

* Changes to the system will involve adding the code, removing the code and modifying the code without necessarily changing the code.
* The system will adapt to platform updates by the use of various measures including; putting in place the Rolling Out IOS Updates, Rolling Out Android Updates and using the Temporary Bringing Down of the web browser particularly in the Non-crucial time
* The Information Technology administrators will require various access types including access to modify code, access to the source code and access to the new regulations and laws put into place for 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?*

* For the user to login, they will require a username and a password
* To secure the connection, the system will require the user to have a username and password, the system will advise the user when the system is not secure and the system will notify the user and the IT administrator in the case an account is being hacked
* In case of a brute force hacking attempt, the system will report the hacker to the administrator and the hacker will be immediately logged out. However, in the case the hacking process is severe enough, the system will allow the servers to go extremely low to prevent possible damages
* In the case the user has forgotten their passwords, the system will provide security questions that the users have to present answers, the users will have to rest their passwords and the users can contact support by making a phone call

### 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 permit reset of passwords
* The system shall permit modification of information on any platform
* The system shall show progress users have made and the time logged in
* The system shall show the users’ details
* The system shall make updates of information among different platforms

### 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.)?*

* On Android and IOS platforms, the interface will consist of screen touch and phone
* The needs of the user interfaces will vary depending on the platforms in use, for instance, on Windows and Mac, the interface will comprise of the mouse and keyboard
* The user will interact with the interface through driver notes, driver photo, online test progress etc.

### 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?*

* There are a number of things that were not addressed in the design particularly when it comes to the target audience.
* The user interface is assumed to be 99% effective because it is assumed that;
  + Users know how to use a mouse and a keyboard
  + Users know how to operate an Android
  + Users know how to work with an iPhone

### 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 encounter a number of limitations, for instance, the difference between phone and computer in terms of power. The phones have less power when compared to the computers
* Limited time may lead to programming errors
* The budget may be limiting because of the small profit margin
* Optimization of Android and IOS may vary because of technological limitations

### 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.*

[Insert chart]