# 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?*

* There are currently few tools to help with passing a driving test.
* DriverPass would like to create a system that will provide individuals with the necessary resources to pass driving tests. Resources include practice tests and on hand 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?*

* DriverPass would like to help those in need of additional study materials for a state driving exam.
* DriverPass would like to provide the means of obtaining hands on training for the driving exam.
* DrivePass wants to help those who are failing a driving exam.
* DriverPass would like these resources to be available anywhere there is an online connection.
* The system should provide proper security measures based on user status and grant access to available material.
* The system needs to track progress made through available courses.
* The system should track reservations and modifications for hands on training.
* Hands on training should have different packages available.

### 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?*

* Upon completion, the system will be a functioning website that gives users an ability to create an account to access study resources.
* Gives customers ability to schedule appointments, modify appointments, and cancel appointments made for hands on training.
* Gives subscribing users access to study materials, practice exams, and courses in an online environment.
* Provide back-end support for granted users to assist in course and appointment changes.
* Proper planning is needed for a quick build and release. The use of object models, process models, and UML diagrams will be used to measure progress.

## 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?*

* System will be web based and take the form of a website.
* System will need to need to process requests from users.
* System will need to be able to scale up for a growing user base.

#### 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?*

* Cross platform availability is wanted for the system.
* Because the system will be running in a cloud environment, no additional tools are required.

#### 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 need to create a username and password for their own account in order to access learning material.
* User input will be case sensitive.
* Two-factor-authentication should be used to add security to user account.
* Administration should be notified if the system crashes, bugs are found, and to perform any needed maintenance.

#### 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?*

* Modification of users will be done without changing the code.
* New features and maintenance will be added and performed in small increments.
* Features will be tested to ensure quality before changes are made to the system.
* IT administration users will have full access to make needed changes to 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?*

* Users will be required to provide a username and password to ensure proper login. Two factor authentication should be used for every user account.
* The system will be stored and ran through a cloud. This cloud will be responsible for an exchange of data between client and server.
* The use of two factor authentication will help deter a brute force attack, but other measures will be taken to prevent this. An account will be disabled after numerous failed login attempts.
* Should a user forget their password, a method of resetting a password can be sent via 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 validate user credentials when logging in.
* The system shall provide access to content based on user privilege.
* The system shall allow users to subscribe to different driving packages.
* The system shall schedule hands on training reservations made by users.
* The system shall allow access to practice tests and courses.
* The system shall give detailed information about driving reservations.
* The system shall track user progress through courses.
* The system shall show progress made on tests and courses for each user.

### 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 give users the option of making hands on driving reservations, online classes, and online practice exams.
* The interface will allow DriverPass employees access to make changes to user’s reservations and make updates as the system grows.
* Users will have the options for accessing and interacting with the system through a variety of devices such as mobile phones, laptops, and desktop computers.

### 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 is no budget for this project.
* Is our staff going to be able to meet the deadlines for the desired completion date?

### 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?*

* Budget was not discussed for this project. This will need to be discussed at a later date.
* The desired timeframe of completion for this project is five months. Do we have an adequate amount of people working on this project?
* Is the technology of today capable of running a system that has the given requirements?

### 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.*

