# 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 Liam the owner of DriverPass, an online driver school with options for in person driver training with the goal of providing training and practice tests for future drivers in hopes of making it easier for individuals to pass their drive tests in greater numbers.

### 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?*

* This system should be able to take reservations and place a student with a driving instructor and a car based on a pre-determined package of the users choosing. It should take the information of the user and store it and other information such as status of driving tests and reservations.
* The system is intended to provide in-depth training (both online and in-person) for new drivers so that they won’t fail their driving test. The different components need will include they ability to create a user profile and password then to be able to choose from different package deals for the drives, the ability to set and cancel reservations as well as choose an instructor, be able to choose the time and date for the reservation as well as if the user wants in-person drive training or just online information. The client also requests that we include the ability to access data anywhere online from any computer or mobile device (client wants to be able to work on the system from home if needed). DriverPass has also requested that the user be able to rest a lost or forgotten password.

### 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?*

* This web-based system should start with the homepage with the company logo present, then the user is given the option to register a new account, login as an existing account or use provided information contact DrivePass directly to schedule a reservation over the phone as well as display the address for in-person reservations. This will start by gathering the user’s first and last name, street address, city, state, zip code, as well as a photo and any other needs the user might request.
* Estimated Project Timeline
* Gather requirements -14 days.
* Create use case Diagrams- 8 days.
* Build Activity Diagrams for all Use Cases – 22 days.
* Research user interface- 9 days.
* Build interface- 13 days.
* Build and link data base- 11 days.
* Integrate business logic- 23 days.
* Test System- 11 days
* Delivery of system- 1 day.
* Sign off meeting-1 day.
* Estimated total time for project 113 days.

## 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 should be web-based and linked to the cloud to provide plenty of storage for client’s information as well as all driving law information pertaining to the specific states the site is accessible from. The system will need to be fast enough to handle multiple users on the site at once as well as administrators if needed.

#### 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 would best be run on windows, using the cloud would provide the space needed to run the site as well as the storage for client information as well as driving law information also the provided security would be a good start to security measures for client information and financial information.

#### 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?*

* When a user account is created a specific profile for each user will be saved under a user chosen Username and Password. To further authenticate the user a birthdate and city of origin can be requested as well. The system should always alert admins as soon as a problem occurs to prevent multiple problems from piling up and to allow users uninterrupted access to the site.

#### 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?*

* The system will allow for changes to the user without changing the coded since user information will be stored in the cloud the admin can access this information to make any changes or add or remove users at will.

#### 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?*

* Requiring a username and password as well as possibly using an SSL connection to encrypt the data between the user and the server to better bolster the security for the user.
* After a pre-determined number of failed attempts, the system will lock out the user until the correct password is entered or the password has been reset.
* The system should provide options for password retrieval when the user’s password has been forgotten.

### 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 use a multiple authentication process to validate the users’ credentials.
* The system shall be accessible from both desktop pcs and laptops.
* The system shall provide the user with access to the latest driving laws and DMV information.
* The system shall offer multiple packages to users based on their needs such as sample written driver tests or in person one on one driving instruction.
* The system shall allow users to make appointments with an instructor based on which package they choose if that package entails one on one instructor time.
* The system shall provide a secure environment for users to store financial information for purchases on the site.
* The system shall provide feedback to the user on how they are progressing through the course.
* The system shall be web based and save all information to the cloud.
* The system shall alert admins of any updates to software or DMV information so that the server can be updated accordingly.

### 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 will need to provide two types of access to two different levels of accessibility one for users and one for admins, the user accessibility will need to give access to appointment scheduling as well as purchase information while the admin will provide access to all information on the site in order to provide updates and fix any user issues that may arise.

### 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?*

* Users have access to the internet.
* Users have an email.
* Users have access to computers or laptops as well as the money to pay for packages.

### 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 limitations that I see are that the site is only accessible through desk top and laptop and not yet mobile, adding mobile will only increase user traffic and revenue.

### 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.*

*A screenshot of a project

Description automatically generated*