# 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, DriverPass, would like a system created that provides online training to driving students. This training is meant to raise the number of students passing the driving test on the first try.

### 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 the system to give users the option of three different packages, provide online classes, practice tests and allow users to schedule times in which they want to do their on-the-road and in-person training.
* The system is meant to provide better training to students so that more individuals pass their driving tests.
* The system will be connected to the DMV to ensure compliances are up-to-date.

### 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?*

* Students can enter this information themselves or call for assistance in creating an account
  + First and last name
  + Address
  + Phone number
  + State
  + Payment information
* Students should be able to schedule, cancel and modify appointments
* Select a package they want and which driver they want to work with

## 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 should be available as a website
* The system should utilize the cloud
* The system should be fast enough to upload/update information within five seconds
* The system should be updated as new DMV requirements come in and as new features come out

#### 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 be compatible with Windows, Linux, Mac and accessible mobile platforms
* The system will utilize security that comes with the cloud

#### 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?*

* There needs to be a function within the code that verifies whether a username or email address is already in use
* The password input will be case sensitive
* The admin should receive notifications for issues as they arise

#### 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?*

* Users can be modified without affecting code
* Any updates to functionality of site must be approved by DriverPass
* The users’ should receive a notice for when the site will be performing updates or maintenance
* IT admin will have full access to system outside of code

#### 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?*

* A username and password will be required for login
* The cloud will be utilized for data exchanges
* The user will be prompted to either contact an admin or use email for recovery of any forgotten login information. Email address much match what they used to create the account

### 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 allow users to make and cancel reservations
* The system shall allow users to choose one of three packages
* The system shall allow users access to practice tests
* The system shall adjust access based on which package the user purchased
* The system shall allow users to set pickup and drop-off location
* The system shall show which driver the user made a reservation with

### 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 should allow students to choose a package and access what is associated with it
* The interface should allow DriverPass employees to make changes to profiles and perform updates and maintenance
* Users should be able to interact with the interface on mobile devices, laptops, and PCs

### 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?*

* A budget was not given so we are assuming there will be enough to cover the expenses
* We are assuming that all of the technology needed will be provided

### 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?*

* We have around 5 months to complete the project
* No budget was given
* More personnel will be required to finish on time

### 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 picture containing text, screenshot, number, diagram

Description automatically generated*