# 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?*

* DriverPass sees a need for better driver training in order for more people to be able to pass their drivers test at the DMV. DriverPass hopes to have more people pass their drivers test by using their online and in person 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 noticed that many people were failing their driver’s test.
* DriverPass wants to provide additional online and on-the-road training to those trying to pass their driver’s test

### 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?*

* Users should be able to take online practice driving tests, provided by DriverPass.
* Users should be able to have on-the-road training, provided by DriverPass.
* DriverPass should be able to access data online via computer or mobile device with the ability to download reports
* DriverPass (IT Officer) should have full access over each account. Access will include (but not limited to)...
* Ability to reset forgotten passwords
* Ability to block company employee access
* Users should be able to automatically reset passwords
* Users should be able to make reservations for any 2 hour driving lessons. This includes...
* Ability to reserve a time and day the user would like to take their lessons.
* Ability to book reservation online, using their account.
* Ability to book reservations over the phone
* Ability to book reservations at the DriverPass office, through the secretary.
* DriverPass should be able to track reservations. This includes..
* Who made the reservation
* Who canceled the reservation
* Who modified it last
* Printable activity report for company to monitor reservations.
* Users will have an option between three packages for driving appointments:
* Each driving lesson is two hours long, each package will be divided into separate 2 hour sessions each. Ex: package one will be split into 3 different 2-hour sessions.

**-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.

* DriverPass should have the ability to disable any driving lesson package
* Users should be able to register for on-the-road driving via phone or online, the User will need to provide...

-First name

- Last name

-phone number

-State

-Credit card number (With expiration date and security code)

- Drop off/Pick up location (Must be the same location)

* DriverPass should be able to be connected to the DMV so that they can update DriverPass with new rules, policies or sample question

-DriverPass should receive notifications whenever the DMV has an update

* DriverPass needs to run off the web, over the Cloud

DriverPass interface should display sections...

* Online test progress

-Customer should be able to see what’s in progress and what the customer gas already completed

* Including: test name, time taken, score and status (not taken, in progress, failed or passed)
* Driver notes

-Driver notes to see comments that a driver has left along with times for the lesson

-Including: Lesson time, Start hour, End hour, Driver comments

* Information

-Ability for the student (or secretary) to full out student information

-Including: First name, Last name, address, city, state, zip code, phone number, email address etc..

## 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 needs to run off the web

-this system needs to be over the cloud for backup

-The system needs a place to store customer data and allow for customer/client modifications

-The system should be modifiable by anyone, technical or not.

#### 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 needs to be able to run on any operating systems, including mobil devices
* The system needs a database to hold users and their data

#### 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 should have personal login information
* The clients staff should have separate logins with separate capabilities
* Admin should be able to reset passwords/block acess for accounts

#### 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 user should be able to modify their account information on their profiles, all this user information is stored in a database and is easy to modify

-The IT admin needs full acess over all accounts to help with forgotten passwords and blocking acess to some users

#### 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 and clients need a username and password to access their accounts
* The website will be cloud based which gives the level of security needed for a business and allows for upscaling or downscaling capacity
* If a user forgets their password they need to be able to automatically reset it, one way is through email/phone number for authentication

### 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 distinguish between customers and employees upon login, giving different permissions.
* The system shall keep record of reservations
* The system shall allow for users to book lessons with their account
* The system shall keep track of and update user progress (completed tests/drives)
* The system shall connect to the DMV in order to get notified with current DMV rules and regulations

### 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 system will run off the web over the cloud
* The interface should have easy/direct access to the following:

-Online test progress

-Profile information

-Special needs

-Driver photo

-Student photo

-Driver notes

+ Lesson start and end times

+ Driver comments

* Students should have full viewing of each section, students have the ability to edit profile information
* Drivers and employees have full access and may update any section

### 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?*

* All equipment will be in working condition
* We will have access to all the resources we need
* Cost will star consistent throughout
* The project will not change throughout its life cycle

### 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?*

* Time : The project is scheduled for jan 22 – may 10
* Cost: The project needs to have a fixed and variable cost for materials and labor

### 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.*

