# 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 of this project is DriverPass. The purpose of this project is to join a mostly void market, to train people how to drive, to make the roads safer, to ensure everyone has the most updated training and policies, and to work with the DMV for any future compliance changes.

### 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 want the system to take online tests.
* On the road tests.
* Be accessible from anywhere online.
* Make reservation by phone call or online and include time and day.
* To identify the driver and customer.
* This will make more trained drivers, making the roads safer.
* The website will need to show following things:
* Driver notes
* Online test progress
* General information of the student
* Special needs if any
* Driver photo
* Student photo

### 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?*

* System needs to be flexible
* Be downloaded for offline use.
* Updates with the reservations and cancelled ones.
* Notify the driver and the customer.
* Run on the cloud.
* Show test progress.
  + Time taken
  + Score
  + Status
  + Passed/fail/In progress
* Input where the student/secretary fill in their general information
  + First name
  + Last name
  + Address
  + Payment

## 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?*

* Nowadays everything needs to be worked on application based as well as web based. In addition to application, we also need to make sure it should work on any mobile device like IOS and android phones. The system also must run as fast as possible even though there is high usage of server. As for the update, there should be fixed time like every month for any new system updates but if there is any report of crashing the server, we need to update the system in between the regular update to keep the company growing.

#### 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?*

* As for the platform, the system should run on every platform whether it is Web based applications or any websites. The system should be workable on every device as long as device matched all the requirements for the system to work.

#### 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?*

* Like other applications or emails, all users will have unique ID which they can obtain while using the system for the first time. They can also use their email accounts for verification process as well as they can set the security questions to retrieve a new password for any suspicious activity happen to account in future. Any input will be case sensitive to allow all users to have unique usernames, so there will be less chances of duplicate account. The system should inform the admin every time when there is any system outage, suspicious attempt on user account, or wrong password usage for many times. All this will help avoid any problem in the system.

#### 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?*

* No, only admin would have access to change the user without the changing code. Any platform updates should be done during the non-peak hours to avoid any problem for the users. Also, the updates in the features should be done gradually and not at once. Once the features have been changed, it should be implemented separately. Later, when it has been tested and approved by higher authority, it can go for production.

#### 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 can access to their accounts using their ID and Password. In case of any suspicious hacking attempt, the company can put policy of locking an account for specific period. And before unlocking the account, the user must retrieve the new password by answering the security questions they set while opening an account. Many times, the user forgets their password, but they can retrieve it same way using their email accounts or by answering the security questions.

### 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 security questions and email verification for any future suspicious activity.
* The system shall give unique user ID to each account to avoid any duplicate account.
* The system shall allow admin person to handle the user account so they can handle the account on behalf of the user to add/remove/modify anything.
* The system shall allow user to register for the driving test or practice session and send notification when the time approaches.

### 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.)?*

* Whatever interface the user use whether it is mobile based app or any website, it should be creative and easy to use. So, any age of person can easily use it without having any trouble. With the help of interface, user can make their account to register for the tests and register for practice sessions. User can only see the available time slots that will avoid registration of test or practice sessions for two or more people at the same time.

### 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?*

* I am assuming once the system will be designed, the user will talk about it with others to get more business. This will attract other business to go online as well. I am also assuming there will be increase in the business of mobile and computers users because it requires mobile and computers to use the system.

### 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 is one of the biggest limitations because making changes in the system takes time and getting use to of any new system also takes time. In addition, there might be any crashes during the usage so getting everything resolved also takes time. In terms of technology, one will have to be highly skilled with technology while maintaining the whole the system when it is in useable mode as well as in terms of any crashes what changes to be made requires high level of skill as well.

### 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.*

