# 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?*

* *Liam, the owner of DriverPass, want to provide a better driver training services by offering online classes for potential driver and they can be able to take practice driving tests with an optional on-the-road 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?*

* User can access the data from anywhere, online or offline, but offline will cause data redundancy if user modified data.
* User will be able to download report online
* Ian will have full authority over all accounts so he can do user password recovery or block access from potential former employee
* Server side track user’s activites
* User can make reservations for driving lessons online, and can be specific in time, date, duration
* DriverPass can matched driver to user

### 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 will have a three tier package for user to choose from, but it depends on the user choices, the least chosen package will have a potential disable in the future.
* System collect detail information from user including their choice of pickup and drop-off location
* User have the ability to schedule their appointment online, recover forget password.
* System follows DMV compliance with latest rules, policies, updates and tests
* System runs over the cloud
* User can see their online progress interface when taking the test

## 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 is a web-based application runs dependently from web browser
* System runs responsive as long as user have stable internet connection
* System update constantly to match up with user’s behavior change

#### 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?*

* System can run on any mobile platform via web service
* AWS cloud service support the system using AWS Backup and AWS database

#### 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?*

* System can differentiate user and admin based on their credentials
* Case-sensitive is a must for more secure password protection
* System generate a report accordingly to admin if there’s problem on user end.

#### 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?*

* IT admin will have a complete authorization to modify code base, but require a check in/ check out system to compare any modifications.
* Admin user will have the ability to make change to the user
* System will be updated to any platform updates for better supports

#### 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?*

* System will have a two factor authentication for user to login without using password
* Using password required a combination of string, integer, symbols and length for better security
* Any brute force attempt will be reported straight to the IT, so developers can prevent it asap.
* User forget their credentials can change their user id or password by contacting admin

### 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 let user download their data
* The system shall give the user an ability to schedule an appointment
* The system shall give the user a choice to choose package tier
* The system shall allow user to check their progress
* The system shall allow admin oversee user’s activity

### 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.)?*

* User Interface will have a login screen to ask for user’s credentials
* System can distinguish between regular user and admin user based on their credentials
* User can access the interface via any mobile platform with browser
* After login screen, there will be 4 action to choose from such as Download Data, Schedule an Appointment, Choose Package Tier and Checking Progress

### 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?*

* Assume user have internet access when access the system via mobile platform with browser
* Assume there’s no scheduling conflict when user making schedule
* Assume there’s no driver or vehicle shortage
* Assume AWS cloud service is always functioning

### 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?*

* System doesn’t support iOS or android application
* System doesn’t support password recovery via mobile phone or email verification
* System will not run properly if AWS cloud is disrupted

### 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.*

