# 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?*

* Client: DriverPass (Owner: Liam)
* The purpose is to provide training for students preparing to take the driver’s test.
* The system should provide the students with all the tools they need to pass the driver’s test.

### 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?*

* The problem that DriverPass wants to fix is the large number of people who fail their driving test.
* They want to provide online practice tests and classes that they can take.
* They also want to allow the students to be able to have on-the-road training.
* They want the system to notify them when a reservation is made.
* Some components that will be needed are online test materials, driver information, and details on reservation packages.

### 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?*

* The system should be able to provide the students with online tests they can take.
* To allow students to sign up for on-the-road training by making a reservation.
* Alert the owner of any changes within the system.
* Allow tracking of any activity within the system.
* The system should keep track of the number of users that login to the system every day.
* Track the number or reservations made and cancelled every day.

## 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?*

* The system should be able to handle a high number of users and transactions.
* The system should also be able to run on the web via the cloud.
* The system should be updated about every 3 months as well as any time there are changes made to DMV requirements.

#### 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 any platform including mobile platforms.
* The system should not need any additional software to run.
* It also should not need a 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?*

* The system will require each user to register with their own information such as a personal email address.
* The system should easily be able to distinguish each user based on their unique user credentials.
* The input will be case sensitive and will alert the user at the start of the registration process.
* The system should notify the admin when there is an error with a user’s account.
* The admin will be notified when the user wants to modify a package.

#### 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 should allow the admin to make changes to it without changing the code.
* The admin should be able to remove a user when they are no longer a student.
* The admin should be able to remove reservations of a user no longer needing it.
* The admin can change user information but only with the users consent first.
* The system should alert users of any updates on DMV requirements and prompt them to download any additional information.
* The IT admin will need access to cost, compliance, and convenience.

#### 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?*

* The system should require the user to input their username and password.
* The security should require both technical and administrative control.
* The security should also ensure no private information gets leaked and should also prevent any attacks.
* If brute force hacking is attempted, it should be blocked by an emergent disabling of the account being breached.
* The system should also notify the admin of such an attack.
* The system should allow the user to change a forgotten password by sending a link to the email linked to 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 provide the user with options on packages that are available on DriverPass.
* The system shall provide practice exams as well as reading materials that will help them to pass the driver’s test.
* The system shall notify the admin of any changes made to the system.
* The system shall allow communication between users and customer service.

### 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 be user friendly and easy to navigate.
* The interface will need permission from the admin.
* The interface will have users such as student, admin, IT, and secretary.
* Each user will need to be able to login to the system successfully.
* The user should be able to use the interface through a mobile device with good internet access.

### 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?*

* That the users have internet access.
* That the users have access to a mobile device or a laptop/computer.
* That each user has an email address of some sort.
* The user will be able to find a package out of the three that satisfies their needs.

### 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?*

* There is a limited number of reservations available, so it is first come first serve.
* There are a limited number of drivers and cars available to the users.
* There are only 3 packages available to the users to choose from.
* You must have a good internet connection to use this interface as well as some sort of mobile device or computer.

### 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.*

