# 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 purpose of this project is to build a system that will facilitate driver education.
* The client is DriverPass.
* This system will need to be able to pick and pay for classes, track student progress, setup appointments, and manage their information.

### 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?*

* There is a need in the market for an improved student driver education system. Many people fail their first drivers test at the DMV.
* DriverPass wants to provide an online training service with classes and practice tests as well as the availability of on-the-road training.

### 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?*

* This system will require online access from computers and mobile devices.
* There will need to be varying levels of permissions for employees.
* The system will need to track reservation activities including making, cancelling, and modifying reservations etc.
* Students will be able to setup appointments online or on the phone and the system will need to be able to collect and store the student’s information.
* Three packages will need to be supported. They are as follows:
  1. Six hours in a car with a trainer
  2. Eight hours in a car with a trainer and an in-person lesson where we explain the DMV rules and policies
  3. 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
* These packages will need to be able to be disabled.
* The information that needs to be collected on each student includes their first name, last name, address, phone number, state, pickup and drop-off location (which should be the same), and their credit card number, expiration date, and security code.
* This system needs to be run from the cloud.
* The UI will need to conform to the provided wireframe and the driver notes need to follow the provided table in displaying information.

## 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 will be a web-based application.
* This system does not need to be extremely fast by any means but should be capable of updating the information each time a user changes things or when session events happen.

#### 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?*

* All computer operating system and all mobile platforms must be supported.
* There will need to be a backend database on the cloud to store customer, instructor, and training information.

#### 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?*

* Usernames will not be case-sensitive, but passwords will be.
* Admins need to receive reports when reservations are made, cancelled, and modified.

#### 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 can change their information without needing the code to be modified. The packages that are offered can only be disabled. Modification or addition of packages will require code changes.
* IT will have the ability to update and maintain the system.
* IT admin needs to have the ability to reset passwords and block accounts.

#### 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 user will have to register an account with their information, a username, and a password.
* Security will be provided by a cloud service. All communications will require secure connections and digitally signed documents.
* If a password is entered too many times, the system should automatically lock out the user. They will have to contact IT to have their password reset.

### 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 be able to send Excel readable reports.
* The system shall only allow data updates online.
* The system shall allow users to make, modify, or cancel reservations.
* The system shall send updates on reservation status and lesson progress.
* The system shall require all users and admins to provide their password when logging in.
* The system shall adhere to the provided user interface.

### 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 user interface will follow the provided wireframe and shall include the driver notes table provided.
* The students will need to access this user interface to take lessons, make reservations, and check progress.
* This interface will be hosted on a web browser.

### 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?*

* The data storage will use a cloud.
* The development team is capable of developing this software in the allotted time.
* This system is being developed without consideration to future features.

### 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?*

* The earliest expected date of sign-off will be May 10th.
* We have a limited number of team members available to work on each of the necessary components for this system.
* This system will not be available offline due to data inconsistency issues.

### 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.*

Timeline

Description automatically generated

Note: Some of the fields of this chart cannot be seen due to the nature of the document. A copy of the file will be provided along with this Business Requirements Document. I chose to use Excel because Lucidchart would not let me create a Gantt chart. This was stated in further detail in my discussion post.