# 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 is the client and wants to develop a program that helps customers pass their driver’s test. They want to offer online classes, practice tests, and schedule in-car driving lessons.

### 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?*

* They want a program that supports in person as well as online scheduling, with the scheduling being accessible via multiple OS’s. Some of the top components on the list would be data storage, cross OS accessibility, user activity tracking, and some form of role based tracking for staff members.

### 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?*

* Allowing customers to modify, cancel, and select different packages is high on the list. Making sure the server is accessible in offline and online form was mentioned, however it only needs to be editable online. Tracking activities is another big one, being able to track cancellations and other logs is high on the list as well.

## 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?*

* Web based and mobile compatible. Run in close to real time, with customer reservations updating fast. Quarterly or based off 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 will be cloud based. While not specified, SQL would be a good database since its reliable, secure, and scalable backend.

#### 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?*

* Unique usernames like most websites, with case sensitive passwords also like most websites. The admin should get information on issues if there are login or data anomalies.

#### 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?*

* Changes will be made through setting and not by changing code. Handling updates automatically is what we’re shooting for. The IT admin should be allowed full access over accounts if were talking just the user side of things.

#### 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?*

* A unique username and password for logging in, and encryption over these will fix any security issues from client to server. During a brute force attack locking the account down after a number of attempts and notifying the admin and user will be the best solution. For forgotten passwords, a forgot password reset button would be the most quality of life.

### 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 encrypt user credentials from client to server.
* The system shall allow customers to select, schedule, and cancel driving lessons.
* The system shall allow different user access for updating and deleting records as needed.
* The system shall log changes to reservations and user activities.
* The system shall track all lesson details.
* The system shall have an automatic update process in place.

### 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 itself needs to be user friendly and have web and mobile compatibility. Admin for full account access and all server functions, Secretary would need access to appointments for making, cancelling, and modifying, and Customer or User for booking and viewing site material. The user themselves would have navigation for scheduling, viewing, or tracking lesson; this will be cross platform.

### 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 would say access to technology and the internet would be the first thing that comes to mind.

### 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?*

* Budget might hold back on scaling the system, as well as the internet for automatic updates.

### 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.*

