# 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?*

* This project is for training users to pass a driving test.
* Our client is DriverPass.
* The software should provide training material to student drivers.

### 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 wants to train students to pass a driving test.
* The intention of this project is to lower the percentage of failed driving tests.
* This system will need a user interface for students to access the lessons.
* It will also need to provide administrative functions for the client to manage the content of the software.

### 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?*

* A deliverable build of this software should be able to provide the content of its data to the client from any of their devices.
* It should have security functions that restrict access to this data based on the role of DriverPass employee attempting to view it.
* This usage data should include any changes made, including the user who made the changes.
* The user interface must allow a student to create, login to, and view a unique user profile.
* It should provide a prospective student with a list of lesson packages to choose from (they have given us three packages that they currently wish to include).
* DriverPass needs to be able to disable a package if they no longer wish to provide it.
* Once a user has selected a package, the user should be able to schedule an appointment for the lesson that requires their: first name, last name, address, phone number, state, credit card information, pickup location, and drop-off location.

## 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 run on PC and mobile devices.
* To limit interference with lessons, we should limit schedule system maintenance to a frequency of no more often than once a month.
* The system should run fast enough that no page or request takes more than 20 seconds for a common user to load.

#### 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 must run on Windows, support for other platforms is desirable.
* The system requires both user history and package information to be stored that can be accessed any time during DriverPass’s business hours, from anywhere in the state(s) they operate in.

#### 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’s input should be case sensitive.
* A report should be immediately sent to a system admin if a system-wide problem occurs.
* User specific system problem fixes may need to be handled by communication between the user and tech support staff.

#### 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?*

* User updates should not require changes to the system code.
* An IT admin requires access to make changes.
* This administrative access may include appointment information but should not include access to personal user information such as saved bank 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 system should have some function to assist users who forget their login info.
* I would recommend a two-factor login.
* The system may benefit from a function that locks a user’s account if a hacking attempt is suspected.

### 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 save a user’s profile information, and remember it when they are logged in.
* The system shall provide a list of driving lesson packages to users and allow them to select one for purchase.
* The system shall provide a currently enrolled driving student with instructions on scheduling time with an instructor.
* The system shall remember a student’s upcoming appointments, and display them while they are logged in.

### 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.)?*

* On any platform, the user interface will need the following elements:
* A profile link,
* Links to purchase packages,
* And a display that shows any currently enrolled package, and any appointments for that course.

### 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 assume that DriverPass will be supplying package information for this system.
* I assume that DriverPass will handle appointment scheduling between instructors and users after a purchase and request is made through this system.
* I assume the user has working hardware that can process and display the system’s UI.

### 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?*

* We have promised to deliver a working system by May 9th, giving us 3 months to work on this system.
* Our other known limitations include the budget our company has allocated to this project, the 5 employees we have working on this project, and the hardware/software we have access to at the office.

### 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.*

Chart, timeline

Description automatically generated