# 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 client is DriverPass, they would like for the system to be able to fill a void in the process of getting a driver's license, DriverPass would like to have a service that offers one on one personalized driving classes as well as online supporting materials for students.

### 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?*

* Be accessible online anywhere
* Hierarchy of access depending on the user
* Tracking reservations
* Ability to print activity reports
* Ability to create reservations, with date and time of day
* Classes will be limited to 2 hours each day
* Identify the driver paired with the student
* Track student driver pairs, time, and car in use
* Online course material and practice tests
* Option for a package system, Package one six hours total in car training, package two eight hours total with in-person lessons, package three twelve hours total in car training, in-person lessons as well as access to online content including practice tests.

### 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?*

* Online access on any device
* Partitioning of privileges depending on user/ functional different user classes
* Functional package system
* Functional reservation system
* Classes formatted into 2-hour blocks

## 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?*

* Since we need this system to be available on multiple devices I would say that it would need to be web based.
* The system should be fast enough and have enough bandwidth to correctly load to multiple students
* The system should be updatable at the clients needs

#### 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?*

* This system should run on windows, but if we do a web-based application, it should be able to run on any platform with internet access. Windows would be the most common and would have the most support. The back end should have a database for student information to be stored and other data.

#### 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?*

* Different users will have different case sensitive usernames, if a user tries to register a username that is in use currently the system should throw an error message. The system should inform the administrator whenever there is a significant issue like the site going down or a part of the system becoming nonfunctional.

#### 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?*

* Yes, if we have user information in a database, we can include a function in the UI to allow the modification of users, IT admin will have full access to the system.

#### 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?*

* User account information should be linked to an email for recovery purposes, to protect the information we should encrypt any databases that hold user details as well as keeping these details encrypted until they reach the server and are decrypted. Brute force hacking can be solved by simply requiring reCAPTCHA after three unsuccessful attempts at a log-in.

### 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 show who the driver paired with the customer
* The system shall have three different package options
* The system shall run smoothly and quickly
* The system shall provide access to users depending on their role
* The system shall show all customer information including test progress

### 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 have a reservation function, including options to modify reservations
* The interface should allow employees to update the system as well as modify user information
* The interface should be viewable on different devices such as computer and mobile systems

### 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 am only assuming two things in this project, that we have a security framework already taken care of, and that we have a back-end server set up to accommodate our system. We also assume we have a budget that will cover our 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?*

* The biggest limitaton we have here is time, we only have about 5 months to complete this task.

### 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.*

