# 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?*

* Our client, DriverPass, thinks there is a void in the market when it comes to training students for their driving test at the local DMV, and want their new system to fill that void.

### 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?*

* Client wants us to build a system that allows customers to practice for their test online, and allow for reservations with instructors for on-site training.
* The system will be website that gives our customers access to content on our website and access to our instructors.
* Use cloud for server.
* Connect to online payment system (like paypal).

### 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?*

* Allow customer to register for account.
* Allow customer to browse, check, create, cancel, or modify reservations for driving lessons.
* Take online practice questions and practice test.
* Allow different users (like the secretary) access to check, cancel, or modify reservation.

## 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.*

* Lock account access for 30 minutes if user fails to enter password exceed three attempts.
* Accessible by any browser by the user.
* Accessible 24/7 constantly.
* UI based on client’s vision/sketch.
* Customer can keep track of their reservations.
* Customer can access online practice test and quizzes.
* Website updates their content sent from the DMV regularly.

#### 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 application. Server response time of 200ms or less.
* Cloud server. Updated every 3-5 years.

#### 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?*

* [Insert text]
* Linux for web server.
* Cloud database for user accounts management.
* Connection to online payment system.
* Connection to DMV system.

#### 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 user will be differentiated based on the status of their account
* Password should be input case-sensitive.

#### 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?*

* Higher level users will be able to add/remove/modify any reservation.
* Highest level user will have access to all user accounts. Prevent any laid-off employees from access to account.

#### 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?*

* Using cloud server.
* If user forgets password, Admin account can allow user to reset password.

### 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 validate user package level before giving access to online content.
* The system shall validate for any schedule conflicts before changes are made by any user.
* The system shall check for payment authorization before users get their deliverables.

### 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.)?*

* Different users: customer, instructors, secretary, IT admin, owner
* The website will have “Package deals” of varied levels, and customer users will have limited access to content on the website based on the level of their package. Customers will also be able to make reservations for on-site training on the website.
* Higher access level users than customers will be able to modify the customer users reservations.
* IT admin is granted access to modifying/maintaining the website as well as the creation of higher level users.
* Owner user is granted access of all users.

### 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?*

* Our customers will have access to a computer or internet connection.
* Our customers will have access to a phone to register with our secretary.
* Our customers will remember their reservations.

### 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 are limited in the number of instructors we have available.
* We are limited in the number of cars we have access to.
* Customers only being allowed to register an account through a phone call to our secretary sounds like a bottleneck.

### 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.*

A screenshot of a computer

Description automatically generated