# 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 looking to fill a void they found in the driving test market by providing better driving training for people trying to pass their driving test at their local DMV.
* They need a system to support the creation of reservations for the training packages DriverPass provides. Including the managing of the driver and customer 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?*

* Access data anywhere
  + Online
  + Offline
* Different roles and rights
* Reservations for driving lessons
* Connected to DMV for updates
* Automatic backup and security
* Frontend GUI

### 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?*

* Access data anywhere
  + Online
    - Access data
    - Modify data
  + Offline
    - Download reports and some information using excel
* Different roles and rights
* Track changes each user makes
  + Able to print activity report
* Reservations for driving lessons
  + Make
  + Cancel
  + Modify
  + Track which driver and car is scheduled with reservation
* Driving appointments
  + 10 cars
  + Three packages
    - Package one
      * 6 hours in car with trainer
    - Package two
      * 8 hours in car with trainer
      * 1 in-person lesson on DMV rules
    - Package three
      * 12 hours in car with trainer
      * 1 in-person lesson on DMV rules
      * Access to online class
  + Each session 2 hours long
    - Emp – package 1 has 3 sessions
  + Ability to disable packages
  + Future release - ability to add/modify package modules
* Info needed for registration
  + First and last name
  + Address
  + Phone number
  + State
  + Credit card number
  + Expiration date
  + CVC number
  + Pickup and drop off location
    - Must be same
* Connected to DMV
  + Notification whenever the DMV updates
* Hosted on cloud
* Automatic backup and security
* GUI
  + Online test progress
    - In progress
    - Completed
    - Test name, time taken, score
    - Status
      * Not taken
      * In progress
      * Failed
      * passed
  + Driver notes
    - Show
      * Lesson time
      * Start hour
      * End hour
      * Driver comments
  + Input form
    - Fields for required 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?*

* Web-based
* Mobile
* Cloud
* Near real time response
* GUI

#### 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?*

* Linux based to optimize resources
* Database – probably SQL

#### 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?*

* User accounts
* Admin accounts
* Passwords case-sensitive
* Email notification of problems to admin.

#### 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?*

* Automated backup
* Cloud based scaling
* Possibly multi-node architecture for reliability

#### 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?*

* SHA256 encryption
* Passwords – including special characters
* Username
* Timed lock out after 5 wrong passwords
* password reset
* HTTPS

### 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 print reports and information for admins
* The system shall have different roles
* The system shall allow admins to reset passwords
* The system shall create reservations
* The system shall track drivers
* The system shall offer multiple packages
* The system shall be able to disable packages

### 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.)?*

* GUI
* Logo
* Online test progress
* Information section
* Driver notes
* Special needs section
* Driver photo
* Student photo
* Admin users
* Student users
* Secretary users
* Mobile support
* Browser based

Text

Description automatically generated with low confidence

### 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?*

* No current database
* Users know how to use the web
* Users have access to a device with internet access
* System may be used 24/7

### 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?*

* Requires cloud service
* Limited number of drivers
* Uptime can not be 100%

### 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, calendar

Description automatically generated