# Robert Ormond 10/28/2023 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

The purpose of this project is to provide a system for the client and his IT officer to help potential clients study and prepare for their driving test through the DMV, this system will have a few options to enable the customers to succeed including classes and tests both online and offline with the ability to schedule driver assisted appointments.

* The client is the owner of DriverPass and his IT officer
* System to help customers study and prepare for driving tests through the DMV.
* Allowing the users to create driving appointments through the company as well as take classes and practice tests online and offline

### System Background

The DriverPass system wants to provide a more user-friendly experience for potential customers who are practicing for their DMV test. There are a few different components needed for this system including both online and offline functionality as well providing different packages for customers to order that will include both classes and practice tests. Additionally, there will be the functionality to schedule driver assisted appointments for users, the ability to track these reservations for the user and secretary roles. The secretary role should also identify and have a view of which drivers are scheduled for appointments. There should be an administrator role that will have full access to all accounts as well as the ability to print an activity report for any changes.

* provide an online and offline program   
    
  “ I want the system to help me access my data from anywhere, online as well offline.”
* Providing training through classes and practice tests  
    
  “ I want them to be able to take online classes and practice tests”
* Allow the user to make, cancel and modify appointments online  
    
  “ I want the user to be able to make appointments, cancel, and modify appointments online if they wish.”
* Ability to track who made the reservation, canceled it or modified it last

“I want the user to be able to make appointments, cancel, and modify appointments online if they wish”

* Able to print an activity report for reservations canceled, made, or modified  
    
  “ I want to be able to print an activity report and figure out who is responsible”
* Full accesss over all accounts for the admin as well as different privelages in different roles  
    
  “ We have different employees at the company with different rights and roles. For example, for me I need to have full access over all accounts”
* Tracking which driver is scheduled for these driving appointments  
    
  “ We also need to be able to identify the driver the customer is scheduled to go out with”
* Different driving packages for appointments available and the ability to disable a package  
    
  “ The customer can pick one of three packages”
* Registration information collected including pickup as well as drop off location for driving appointments.
* Ability for customers to automatically reset their passwords online  
    
  “ If the customer forgets their password, we need them to be able to automatically reset it.”
* Notifications if DMV updates rules, policies, or sample questions, connected to DMV  
    
  “So we need to be able to be connected to the DMV so that they can update us”
* Run over the cloud  
    
  “ The system needs to run off the web, preferably over the cloud”
* Visual interface showing tests taken, in progress, and available, with information including name, time taken, score and status; in progresss, failed, passed. As well as a driver notes section in a table format including any comments the driver had as well as relevant information; Lesson Time, Start Hour, End Hour, and Driver Comments.
* An input form for the student or secretary to fill in studen information as well as contact information. (first name, last name, address, et cetera.) as well as a page for contacting DriverPass and a way to contact the student.

### Objectives and Goals

The system should be able to effectively prepare its users for the DMV driving test through the means of classes and practice tests as well as provide driver assisted appointments that can be scheduled by the users. Measurable tasks that need to be included to achieve this will be several different roles with different attributes and functionality as well as an online and offline system to enable availability for its users. The ability to view the resources, change customer information for the driver appointments as well as able to view driver comments to learn from the experience.

* Provide sufficient information and availability of resources for users to properly prepare for the driving test at the DMV through the practice tests and classes and additional driving appointments.
* Ability to receive information through the cloud in online and offline availability.
* Comprehensive viewing of the material in a format to see what classes and tests are available, completed, and in progress.
* Ability to create reservations for driving appointments and fill out forms for contact information between the company.
* Different privileges in roles, to create edit and remove reservations as well as be able to receive the information of who made these changes.
* The availability of different packages to be ordered for the driving appointments and the ability to remove them as needed.
* The ability to see driver comments and the information relevant to the appointment.
* A learning management system to coordinate materials and assessments using the online learning modality.

## 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

* The availability of updates to be pushed through the system as the client deems fit.
* The system should be fast enough that users will have little issue accessing the provided information and the functionality provided by the system.
* System should be web based over the cloud including functionality both online and offline for the users.
* The system should be able to accommodate the traffic of its users with no complications.

#### Platform Constraints

* System should be run on linux for better security measures compared to windows and unix.
* The platform should run on most different web browsers including mobile functionality
* The security and database requirements should be managed by the back end

#### Accuracy and Precision

* Notifications from the system to the admin in the case of any bugs
* A daily report of any errors should be compiled along with direct notification to the admin
* User created bug reports to admins
* The input should be case sensitive and allow the implementation of further security features such as 2 factor authentication
* User logins will distinguish between the different users

#### Adaptability

* Changes to the user can be made without changing the code
* The system will update as needed for future functionality
* Admin to have access to database and make changes as needed to entire system

#### Security

* Username and password requirement for login
* Email requirement to send out new password information for lockout
* Disabling of accounts if incorrect login information is input after multiple uses
* The cloud will be responsible for the data exchange between client and server

### Functional Requirements

* The system shall allow the ability to book reservations by user
* The system shall provide functionality of classes and practice tests for user based on package order
* The system shall show progress of tests or classes the user has completed
* The system shall validate the user credentials when logging in
* The system shall show available appointment times
* The system shall provide a response email with temporary password if user gets locked out

### User Interface

* Allowance of DriverPass admins to change user accounts and implement system updates as needed
* Ability for users to creaete reservations for the driver assisted appointment packages, as well as online practice tests and classes
* Users will require access to computer and web browser to interface with the system

### Assumptions

* That the design choices and system will be in budget, as no budget was provided
* Assuming access and utilization of the needed technology
* Assuming most students have access to internet, computer, and web browser
* Assuming most students have access to email

### Limitations

* No budget provided however timeline of 15 weeks provided
* All major web browsers compatible with system
* An agile approach utilized by development team
* Limited development team employees to work on system

### Gantt Chart

A chart with multiple colored squares

Description automatically generated with medium confidence