# CS 255 Business Requirements Document Template

## System Components and Design

### Purpose

* Ian and Liam are owners and executives at DriverPass and have come to us to help develop a system for them that will offer various training services for clients seeking to pass their driver test.
* Essentially, DriverPass will provide online and on-the-road training for its students.

### System Background

* DriverPass seeks to fill a gap in pre-test trainings for the DMV’s test for a license
* Some customer-facing functionality of the system needs to include:
  + Client login to website, with a password reset option
  + Clients can enter payment information
  + Clients can select from various training packages
  + Clients can schedule their training sessions
  + Clients should also be able to call in for payment
* Certain employees should have remote access to the system
  + Also ability to pull reports as Excel file types
* System should send employees notifications when the DMV makes changes to its procedures and curriculum
* The site should also include a contact page for DriverPass

### Objectives and Goals

* Should be web-based
* DriverPass does not want to manage system security and backups
* Tasks to include:
  + Collect requirements
  + Build activity diagrams
  + Research UI designs
  + Construct class diagram
  + Get client approval on work-in-progress
  + Build interface and link it to database
  + Build business logic and test the system
  + Deliver the system and get client sign-off

## Requirements

### Nonfunctional Requirements

#### Performance Requirements

* The front-end of the system needs to be web-based
* System should alert admin users when DMV posts updates to its procedures or curriculum
* System should run as quickly as possible, not exceeding 10 seconds for a page to load

#### Platform Constraints

* Though web-based, system should be accessible via all major OSes: Windows, Unix, Linux
* Should also be compatible with multiple versions of each OS: Windows 10 and 11, newer MacOS
* Additionally, website should be compatible with recent versions of modern browsers: Firefox, Chrome, Safari, etc.
* A database containing customer info (name, address, photo, test progress, etc), trainer schedules and availability

#### Accuracy and Precision

* When created, accounts should be flagged as either customer or employee. Employees should be further marked as admin or non-admin
* Usernames should not be case-sensitive, but password need to be
* Admins should be notified when a user account becomes locked out
* Liam asked to be know who makes a reservation, when they get cancelled, who last modified an entry

#### Adaptability

* DriverPass stated that they do not want to handle data backups or system security
* Ian and Liam specifically require elevated account access for administrative purposes
* Admins should be able to unlock user accounts, reset passwords

#### Security

* Ian needs full admin permissions to administer user accounts
* Users should need to enter their username and password to successfully log into the system
* User accounts ought to lock after so-many login attempts
* System should offer a ‘forgot password’ option for users to reset their forgotten password
* System should distinguish employee user accounts versus customer user accounts

### Functional Requirements

### User Interface

* All users will be accessing the system, though employees and admins will have more access
* Interface need be available through a mobile friendly webpage
* Customers should be able to log in, see a page with their:
  + test progress
  + scheduled training times
  + photos of them and their trainer
  + any notes their trainer has for them
* Trainers and admins should be able to see:
  + Client lesson times and any trainer comments
* Admins should be able to:
  + Run reports on customer appointments
* Secretarial staff should be able to enter/change customer data as needed
* Site should have a ‘contact us’ page for the company

### Assumptions

* Users will need to have internet access to be able to get to the system
* Users will need an account to log into the system
* Users will need appropriate permissions to access their respective areas
* Users will need a fairly up-to-date modern browser to access the site

### Limitations

* Users will not be able to access the system if they do not have internet
* Normal users will not be able to access the system when it is down for maintenance
* The system may not be able to get updates from DMV if their system is down

### Gantt Chart

Timeline

Description automatically generated with medium confidence