# CS 255 Business Requirements Document Template

## System Components and Design

### Purpose

### This project is designed for driving school named DriverPass. The purpose of the proposed system is to develop a website that makes driving training more straightforward for students by providing a platform for quick access to online and on-the-road training to increase student pass rates for driving tests.

### System Background

* DriverPass is seeking a system that allows users to log in to their training program, track their progress, reserve training blocks for driving lessons, and modify appointments.
* The system must be available online and offline and accessible with computers and mobile devices.
* The website should have a contact system for students to reach out to staff members, and staff members to contact students.
* The system must regularly be updated with information from the Department of Motor Vehicles.
* The system should make it easier for students to pay by accepting payment information such as name, address, and credit card information.
* The system will be cloud-based to reduce security and maintenance costs for DriverPass.

### Objectives and Goals

* The system will provide users with the following functions:
  + Log into their personal accounts
  + Track their training progress
  + Reserve on-the-road training blocks
  + Cancel appointments
* The system will allow the system administrator (Liam) to:
  + Print account reports
  + View driver ID’s
  + Track which drivers and cars are matched with which students at a given time
  + Add, remove, and disable learning modules
  + Download and change driver reports using Microsoft Excel
* The system will allow the IT Officer (Ian) to:
  + Maintain and modify the system
* The system will allow the secretary to:
  + Make and modify appointments
* The system will use the Department of Motor Vehicles’ database to stay current on rules and regulations

## Requirements

### Nonfunctional Requirements

#### Performance Requirements

* The system should be available to clients as a web-based portal
* The system run as a standalone application for DriverPass employees/administrators, available online and offline
* The system must be connected to the DMV so the platform is updated regularly with the latest DMV rules and regulations

#### Platform Constraints

* The system must be able to run on Windows, MacOS, and Linux platforms as mobile devices (Android OS and Apple iOS)
* The system should be supported by the majority of popular browsers (Google Chrome, Firefox, Safari)
* A database of clients that is linked to the interface will be required to support the end user’s online profile and administrator’s business processes

#### Accuracy and Precision

* The administrators should receive notifications when a user makes a change to a record in the system
  + Record who made a reservation, canceled it, or modified it. An activity report should be able to be generated by the system administrator
* The system must differentiate between different students, drivers, and cars

#### Adaptability

* Users must be able to make reservations for driving lessons online without changing code
* The IT admin must be able to add and remove modules
* Users must be able to schedule appointments using the portal
* Users must be able to reset their password without changing code

#### Security

* DriverPass should block connection attempts from unsupported browsers
* DriverPass will not grant access until the user creates a strong password
* Role based access control should determine which employees/users are given specific rights, with Liam, the owner, having full access control over the system

### Functional Requirements

* The system shall allow the administrator to create and assign permissions to roles within the system
* The system shall be able to access end user’s grades, profile information, and appointments
* The system shall validate user credentials when logging in
* The system shall accept payment from end users
* The system shall allow users and employees to contact each other

### User Interface

* The user should be able to view online test progress, their personal information, driver notes, special needs, a driver photo, and a student photo through the interface
* Both end users and employees of DriverPass should be able to view the client’s interface
* Drivers and administrators should be able to modify all the information in a user’s interface
* Users should only be able to update their personal information (name, address, phone, email, etc.)
* The interface should be available for accessing on mobile devices and computers
* The interface should allow employees and users to contact each other through the interface

### Assumptions

* The user has a compatible, functioning mobile device or computer to access the system

### Limitations

* Administrators cannot modify system data while offline
* The system will stop functioning once electricity is lost

### Gantt Chart

Chart, waterfall chart

Description automatically generated