# CS 255 Business Requirements Document Template

## System Components and Design

### Purpose

* This project aims to build a system for the company DrivePass to help them gain and manage customers who wish to take advantage of their Driver education system. The client is DrivePass, and they want to take advantage of a void in the market when it comes to student training for their driving test. The system will include many different features that will help manage student and employee information, help students study and stay organized, offer different levels of packages purchased, and help students schedule on the road training depending on their availability.

### System Background

*The background of the proposed system is provided to:*

Drive pass overall wants the system to help students train for their driver's test via online classes and on the road training. They want to fix students failing their driver's tests because of inadequate training.

* The components needed are:
* The ability to access the system online, offline, and through mobile.
* The ability to sign up for on the road training through three different flexible packages includes the ability to schedule those on the road training services through an online calendar that matches you with a car, time pick up, and drop off location.
* Package One includes six hours in a car with a trainer
* Package Two includes Eight hours in a car with a trainer and an in-person lesson where we explain the DMV rules and policies.
* Package Three includes Twelve hours in a car with a trainer, an in-person lesson where we explain the DMV rules and policies—plus access to our online class with all the content and material. The online class also includes practice tests.
* Employees should have different levels of access to the system depending on their position within the company. For example, the IT manager should have full access so that they can deal with problems that arise (Passwords, editing user information, etc.) while a secretary may only have access to scheduling, and limited editing of user information like adding, deleting, or editing payment information, addresses, and pickup locations.

### Objectives and Goals

*The system objectives are:*

* The ability to sign up for three different levels of Driver education
* The ability to schedule driving appointments that match time, car, pickup location, and drop off location
* The ability to access data online, offline, and through mobile (download reports)
* The ability to access online classes and tests with the ability to view history and check the progress
* Provide IT the ability to grant different employees different security access levels so they can schedule/ change appointments, give lost passwords, and track the activities of employees.
* Provide students the ability to stay organized using learning management tools such as practice tests, test reviews, and other learning tools.

*The system goals are:*

* Provide excellent customer service
* Meet all the customers' requirements
* Stay in constant communication with the customer so that we can make changes and get feedback accordingly
* Use SDLC principles throughout the project to meet project deadlines and deal with changes in requirements or problems that arise
* Deliver the project by May 8th.

## Requirements

### Nonfunctional Requirements

#### Performance Requirements

*The Nonfunctional and performance requirements are:*

* We will run this system on a serverless architecture system because the client is not interested in the maintenance of their servers and would instead just focus on other aspects of the business.
* The system will run on windows for accessibility and ease of use reasons
* The system should run like a normal website with limited wait times from the server
* The system should be updated when the DMV in that state makes changes to their laws, and in accordance with whichever could based computing system we choose to go with
* The system should be easy to read and understand
* If the system crashes user information should be maintained
* The system should be able to accommodate as many users as the business requires

#### Platform Constraints

* The platform will be on windows and able to run on the most popular platforms. The system does require a database but nothing extravagant that windows can't handle. Just names, addresses, and credit card information, and windows provide ample security to protect that database.

#### Accuracy and Precision

* The system will distinguish between different users by creating new profiles for each user that includes their first name, last name, address, phone number, state, credit card number, expiration date, and security code.
* The system should inform the admin of a problem if there is a problem with the user information, such as the credit card is out of date or invalid, the phone number is not the correct amount of digits, things of this nature.
* We will code a system that allows the employee with the correct credentials to add/remove/modify user data
* The system will also allow the admin to give certain privileges to certain employees
* IT needs enough access to maintain the system, modify it, and many other things that we think might be applicable in the future.

#### Security

* Resetting passwords should be able to be reset by the user and by the admin
* To prevent brute force hacking, we should only allow so many wrong attempts before locking the user out, also checking for bots.
* The requirement for login was not specified we should inquire further or created a basic user ID and password system
* We should utilize Windows security tools and follow recommendations of the cloud service we choose to host our service

### Functional Requirements

*The functional requirements are as follows:*

* The system shall allow users to create their own login and password
* The system shall prompt the user for their name, address, phone number, credit card, and pick up and drop off location.
* The system shall allow users to choose from three different packages depending on their wants and needs
* The system shall allow users to schedule in-person driving instruction that matches them with time and a car that is desirable to them
* The system shall allow the user to take online practice tests
* The system shall allow the user to track progress in their online tests
* The system shall allow the user to view the history of their online tests
* The system shall allow the admin the ability to assign roles and privileges to different employees
* The system shall allow users to reset their password automatically or have the admin do it for them
* The system shall allow the user to access information online and ability to download if they wish
* The system shall allow access through mobile
* The system shall update when there is a change in DMV policy or state law
* The system shall allow you to access notes taken by the driving instructor
* The system shall allow the admin to set a certain number of transactions before the system doesn't let anyone else to sign up
* The system shall have a contact page for contacting the student or the organization
* The system should provide practice tests
* The system shall provide the ability to log into the online class

### User Interface

* The user will access the system through a computer web browser or a mobile device
* The user will need to be able to operate a webpage (keyboard, mouse, touchscreen, access to the internet, etc.)
* The users will be the employees, students in the class, or potential students in the class browsing the website information.

### Assumptions

*The assumptions are:*

* Users have access to the internet
* Users have a computer or mobile device they can use to access our system
* Users are enrolled students in DrivePass or are interested in attending
* The budget is enough to cover the cost of building the system
* Our developers have the skills required to accomplish all of the customer requirements
* This project will be profitable
* The project will have no significant changes in requirements

*Things not explicitly addressed are:*

* Customers' preference for user IDs
* The budget of the project
* What types of maintenance will be required
* Specifics of times and how the schedule will work when setting up the driver schedule
* Specifics of employee access to the system
* What types of cars are available to choose from when scheduling drive time

### Limitations

* The budget has not been discussed
* We have until May 8th to finish the project and deliver it
* We have four team members available to work on this project
* A limited customer base because of the age and nature of customers
* Legal limitations surrounding advertising to children and working with them

### Gantt Chart

*Chart, timeline

Description automatically generated*