# CS 255 Business Requirements Document Template

## System Components and Design

### Purpose

* The purpose of this project is to offer better driving test training through a system for DriverPass, the client.
* DriverPass wants their system to better educate and train students to pass their driving tests.
* DriverPass essentially wants an all-in-one system to effectively support students in taking driving tests.

### System Background

* The problem here is that students that are preparing to take their driving tests fail more than pass. DriverPass aims to fill the market void by providing a more comprehensive learning experience for students to more likely succeed in passing their tests.
* The different components needed for this system would be the ability to schedule, report, and tools to manage the system.

### Objectives and Goals

* The system should be able to offer the ability for students to register an account and manage their appointments that they scheduled.
* The system should be able to view and enroll in online courses or on-the road training.
* The system should be able to track student’s progress.

## Requirements

### Nonfunctional Requirements

#### Performance Requirements

* The system should be able to run a platform that is web-based, that can be accessible to desktop and mobile users.
* The system should be efficient in loading the web page and its functions at a fast pace depending on load conditions.
* The system should be able to have a high percentage of uptime approximately 99% with downtown of 1% for monthly updates for minor changes, and quarterly or semi- annual updates for major enhancements.

#### Platform Constraints

* The system should be able to run on windows, linux, and mac while on a desktop, and on mobile devices it should be accessible through their respective IOS or android devices.
  + Compatibility with web browsers such as Internet Explorer, FireFox, Safari, Google Chrome, etc
* The backend system should utilize a database to store information from users and the system

#### Accuracy and Precision

* The system users will have unique user IDs
* The system users will have passwords that should be case-sensitive
* The system should notify the admin of any system errors in real time

#### Adaptability

* The system should be designed with modular components to adapt easily to platform updates.
* IT admins should have full access to manage users, system, and backups.

#### Security

* Users need unique login id, password,
* Admins and instructors will have to enter MFA code emailed or SMS to their devices to successfully login
* After a certain number of failed login attempts the account should be locked
* Users should be able to reset their passwords through an automated email process that includes identity verification steps.

### Functional Requirements

* The system shall allow users to register for new accounts.
* The system shall enable users to schedule, reschedule, and cancel driving lessons.
* The system shall let users view and enroll in online courses.
* The system shall track and display user progress.
* The system shall process payments securely.
* The system shall send automated reminders to users.
* The system shall generate progress reports for users and admins.
* The system shall enable the IT admin to monitor system performance and security.

### User Interface

* The interface needs to be user-friendly
* Users:
  + Students:
    - Register, manage accounts, access course material, schedule appointments, and track progress.
  + Instructors:
    - Enter feedback, view and update schedules, and track progress.
  + Admins:
    - Manage users, schedules, courses, and monitor system performance.
* The interface should be accessible on web browsers that will be compatible on both desktop and mobile devices.

### Assumptions

* All users have access to reliable internet and compatible devices for using the system.
* Users have basic technical skills to navigate a web-based system.

### Limitations

* Time: The project timeline may constrain the extent of initial feature implementation.
* Technology: Dependency on third-party services (e.g., cloud providers, payment processors) may limit some functionalities and influence performance.
* User Load: The system may have performance limitations with an unexpected surge in user registrations or concurrent usage.

### Gantt Chart

