# CS 255 Business Requirements Document Template

## System Components and Design

### Purpose

* The DriverPass team feels there is a gap in the current driver education model which is causing many students to fail their driving exams.
* The purpose of this project is to help the DriverPass team design, develop, test, and implement a system focused on providing driving students access to driving training sessions.
* The client team of DriverPass consists of Liam who manages the company, Ian the IT Officer, and Liam’s secretary.

### System Background

* The DriverPass team intends to solve the problem of high failure rates for DMV driver tests by creating a system to provide access to training and driving instruction to prospective test-takers.
* The system will be a cloud-based web system allowing users to sign up for training slots, participate in online classes, and take practice exams online.
* The system will also be used to handle call-in requests from users, which will be entered by the DriverPass team.
* The main user roles of the system will be students, administrators, and the secretary role.

### Objectives and Goals

The goals of the system are:

* Students should be able to use the DriverPass system to easily book driving lessons and take practice exams to prepare for their DMV driver’s exam.
* Administrators should be able to manage and download user data within the system.
* The secretary should be able to manage customer’s data on their behalf

To achieve the these goals, the objectives of the system are:

* Students should be able to:
  + Book, modify, and cancel trainings through the system
  + View their upcoming instructions, completed tests, and driver feedback
  + Update their personal and billing information
* The administrators should be able to:
  + Manage user access
  + Download user data reports from any device
* The secretary role should be able to book, modify, and cancel trainings on behalf of users
* The system should stay up-to-date with DMV standards
* The system should utilize a learning management system (LMS) to deliver training materials and online exams to students.

## Requirements

### Nonfunctional Requirements

#### Performance Requirements

* The system will be web-based and available to a variety of client devices, including computer and mobile.
* The system should be connected to the DMV and give administrators an alert when rules, policies, and sample questions change.

#### Platform Constraints

* The backend of the system shall be hosted in the cloud. The cloud provider will support the operating system security, backups, and maintenance.
* The system should include a database to store student data and schedule information.

#### Accuracy and Precision

* The system shall record the changes made by users and provide reports to the administrator team.
* Only one timeslot per driver is allowed to be booked.

#### Adaptability

* Driver packages will be static and will be manually updated.
* Administrators should be able to disable specific driver packages.
* The secretary should be able to modify user information and driver packages.

#### Security

* The system shall assign roles to users which limit their access and abilities based on the role.
* System users will authenticate with a username and a password.
* The administrator role should have the ability to change user passwords and block user access.
* Users should be able to change their own passwords.

### Functional Requirements

* Through the web application, the users should be able to:
  + Make, modify, and cancel driving instruction appointments
  + View their appointment, class, and test enrollments and view their test history and driver feedback
  + Update their profile information, including name, address, phone number, and credit card information
  + Reset their password
* The system should allow administrators to:
  + Reset users’ passwords
  + Remove access from system users
  + Disable driver instruction packages
  + Access reports and download information from any device
* The secretary role should be able to:
  + Make, modify, and cancel driving instruction appointments on behalf of users
  + Update user profile information, including name, address, phone number, and credit card information
* The system should:
  + Integrate with the DMV to confirm testing and instruction is in line with current testing standards.
  + Maintain an audit log of who made a modification

### User Interface

* The interface must be able to scale to multiple screen and device types. The interface should be page based, with each page allowing the user to utilize the functionality of the system, such as booking training packages and taking online exams.
* The interface for administrators should allow for the viewing and downloading of all student data.

### Assumptions

* The system assumes drivers have access to the internet or to a phone to book driver training packages themselves of through the secretary.
* The students live in an area serviced by the drivers.
* Students must be able to write and speak English.

### Limitations

* The ability of the administrators to modify driver packages without performing system maintenance is not included in the design and will be addressed in a later release
* The system will not handle scheduling drivers tests with the DMV. The student will be responsible for this.

### Gantt Chart

