# X`CS 255 Business Requirements Document Template

## System Components and Design

### Purpose

The purpose of this project is to design a system for the company, DriverPass, that enables students to learn and exceed in their new driving skills. There is a lack of training involved when it comes to turning new drivers into experienced drivers. This new system will provide a multitude of online classes, tests, and on-the-road driving exams. By keeping data for each driver and providing analysis on each individual, DriverPass will be unlike any other company. Along with the data research, users will be able to schedule driving sessions with instructors and cars depending on the new drivers’ needs by offering different training packages.

### System Background

DriverPass intends to be ahead of the competition in new driver training. Through research, we have identified the how and why when it comes to failed licensing exams. It all comes down to the lack of personalized training. Currently, there are few to zero companies attempting to personalize and provide comprehensive driver training that we will introduce. The system will provide online registration, scheduling, vehicle assignment, and multiple packages to choose from.

### Objectives and Goals

*What should this system be able to do when it is completed? What measurable tasks need to be included in the system design to achieve this?*

* The system will allow users to register, log in, and manage their accounts.
* The system will enable customers to book, modify, and cancel driving lesson appointments online.
* The system will provide instructors and admins with tools to manage user roles, reservations, and driver assignments.
* The system will generate reports tracking user activity, reservation history, and driver feedback.
* The system will integrate with DMV updates to ensure learning materials stay current.

## Requirements

### Nonfunctional Requirements

#### Performance Requirements

* Remote access via cloud
* Ability to access online.
* Access via computer or cell phone.
* Ability to download to work offline.
* Tracking capabilities
* Role-based security
* Accesses and abilities to modify for drivers, guardians, instructors and administrators.
* Ability to connect with DMV facilities to provide training information for each student.

#### Platform Constraints

* Run on Windows, Mac, and cellular devices to account for different customers’ needs.
* Works in conjunction with Microsoft Excel.
* Cloud Access

#### Accuracy and Precision

* Customer will be able to input their information online
* Customer can also call front desk who will input their information.
* Backup and constant refresh rate. When customers or drivers cancel or reschedule, it should immediately update on the cloud so everyone can accommodate.

#### Adaptability

* Role-based access
* Drivers/guardians and instructors can cancel, modify, add, reschedule. Also ability to add payment information and address changes. Notifications sent out to any changes.
* IT admin does not need access to cancel, modify, add, or reschedule. Needs ability to change code to fix internal issues.
* Front desk administrators need ability to add, delete, and provide driver information including payment information and address changes.
* Ian will have full access to all capabilities.
* Updates should be made immediately.

#### Security

* User name and password for log in
* Ability to request user name and password if forgotten.
* Customer will be able to reset password via interface.
* Security is important. Ian does not want to have to worry about security breaching.
* User can reset password or contact front desk for help.

### Functional Requirements

* The system shall validate user credentials when logging in
* The system shall allow users to schedule, reschedule
* The system shall allow users to update payment information
* The system shall allow users to provide address information
* The system shall allow users to select driving package and change.
* The system shall update and notify users of any changes made to schedules
* The system shall track instructors attached to drivers
* The system shall track driver notes.
* The system shall allow customers to specify addresses and pickup spots.
* The system shall notify users of all changes made to the schedule
* The system shall track driver progress
* The system shall allow drivers to take practice tests
* The system shall be capable of receiving updates to policies and requirements from DMV.

### User Interface

* Users will be drivers, guardians, IT, instructors, and front desk administrators
* Drivers/guardians will be able to see schedule, pick timeslot, view instructors, adjust personal information (address, payment), reschedule, cancel, and choose driving packages.
* IT’s will be able to access interface to fix bug issues
* Front desk administrators will be able to access interface to fix username issues, input driver information, schedule, reschedule, or cancel.
* Instructors will be able to view schedule, and request schedule changes.
* All users must have a computer or cellular device all with internet to access interface.

### Assumptions

* Having up-to-date phones or computers to access interface
* Full access to internet
* Users will regularly check interface for changes made to schedule.

### Limitations

* Speed will be an issue due to the amount of traffic that could be generated at any given time.
* If a driver or instructor makes a schedule change too close to appointment time, this could create an issue.
* If notifications of changes are not sent out appropriately or if the required people don’t see the notification in time.
* Budget needs to be increased to include a system analyst and developer.
* Security needs to be up to date
* Technology for constant changes

### Gantt Chart

A screenshot of a computer

AI-generated content may be incorrect.