# CS 255 Business Requirements Document Template

## System Components and Design

### Purpose

* The client is DriverPass and is being represented by the owner, Liam, and Liam’s IT officer, Ian.
* The client would like to create a system to offer online classes, practice tests, and on-the-road driver training if desired by the customer.
* Reservations for driving lessons should be scheduled, cancelled, or modified via the system by the customer.

### System Background

* Liam would like to provide training for students taking their drivers tests at their local DMV as he noticed a need for better driver training. The system will offer training classes, tests, and driving packages that assists the customer with passing the actual DMV drivers test and provides more in-depth training.
* Liam and his team will manage the system to monitor reservation activity and account information as needed by the customer.
* There will need to be different user accounts, an account for the student, an account for staff, and accounts for drivers.

### Objectives and Goals

* The goal of the interface is that it looks similarly to the desires of the client.
* The objective of the system is for the customer to have the ability to schedule, cancel, and or modify driving reservations.
* The objective of the system for Liam is to have full access to all accounts from any computer or mobile device with downloadable reports. He also needs access to tracking info regarding reservations with printable activity reports.
* A goal of the system is to enable and disable driver packages depending on driver availability.
* An objective of the system is to have communication with the DMV is always needed to ensure that new rules, policies, or questions are up to date for customers.
* An objective of the system is for the system to be cloud based as backup and security is not a desired responsibility of the client.
* A goal of the system is for its learning management system to coordinate materials using online learning modality.

## Requirements

### Nonfunctional Requirements

#### Performance Requirements

* The system needs to be web-based.
* Administrative access to data online from a computer or mobile device.
* The system will require regular updates with minimal downtime.

#### Platform Constraints

* Web-based system should run on a variety of desktop and mobile browsers.
* Interface should adapt to mobile browsers.
* Backend data needs to be stored for administrative reporting purposes. Data needs to be accessible via downloadable report.

#### Accuracy and Precision

* Passwords will need to be case sensitive. All other input will not be case sensitive.
* Each user will need a unique username that takes the user to an administrator account or student account.
* Admin will be informed if a password is entered incorrectly too many times or if an error is reported to admin through the system.

#### Adaptability

* IT admin will need access to all user accounts for the ability to remove or reset profiles for students and admin staff.
* In the future, IT admin will have the ability to add or remove driving modules.

#### Security

* The user will have to input a unique username and password to login to the system.
* Passwords will need to be reset by someone within the administrative staff via telephone call or walk-in service.
* If there is a hacking attempt, the user account will be locked, the user will be notified of the attack and lock via email, and IT admin will need to reset the account
* The system will run on the cloud for extra security.

### Functional Requirements

* The system shall validate user credentials when logging in.
* The system shall have updated DMV driving policies and laws for the student’s state.
* The system shall require unique username and password login combinations.
* The system shall have accessibility whenever there is internet access.
* The system shall run on the cloud.
* The system shall allow administrative staff, Liam, and IT admin to make changes to student user accounts.
* The system shall have a learning management system that helps student pass their driver’s test.
* The system shall allow the user to schedule appointments for driving practice.
* The system shall track when a user makes a change within the system.
* The system shall notify admin staff when too many incorrect passwords have been entered or when the system has a hacking scare.
* The system shall register users using personal information and link that account to a user entered username and password.

### User Interface

* The system needs to run on the cloud.
* The design of the website needs to align with the drawing design that Liam provided.
* Different users (admin staff and students) will have a different interface that is dependent on the level of access the user has.
* The interface will be used on a web browser and mobile web browser. The interface will need to adapt to each environment.

### Assumptions

* I assume that the users will have the technological ability to easily navigate the cite.
* I assume that the students will have an email address and will feel comfortable providing the information needed to create an account.
* I assume that there is an interface that allows us to update DMV rules and policies as they are released by the DMV.

### Limitations

*Any system you build will naturally have limitations. What limitations do you see in your system design? What limitations do you have as far as resources, time, budget, or technology?*

* A limitation is the inability to time the release of new DMV rules and policies.
* A limitation is the timeframe that we must launch the system.
* A limitation is the inability to gauge the age range of the users to make the system as user friendly as possible.

### Gantt Chart

*Timeline, calendar

Description automatically generated*