# CS 255 Business Requirements Document Template

## System Components and Design

### Purpose

Liam, the owner of DriverPass has requested the development of a web-based system that will allow users to access learning material, including practice tests and driver’s education rules and regulations.

### System Background

Liam has recognized that a large percentage of drivers are failing their driver education test on their first attempt. He recognized that there is a market for providing educational resources to help drivers pass this test on the first attempt. Liam has decided that a web-based system should suffice in providing this service.

### Objectives and Goals

This system will allow users to register and login to create training appointments. The system will also provide the users with access to education driver education resources. Users will also be able to reset their own passwords as well as maintain contact information of their own user profiles. System administrators will be able to maintain the system with package updates as well as updates to the infrastructure of the system, including security, features, and performance. The system will also allow secretaries to create appointments on behalf of the customer, over the phone. The system will track all changes to data.

## Requirements

### Nonfunctional Requirements

#### Performance Requirements

* The system will run in a web browser and speed will be determined by a user’s Internet connection.
* Care will be taken to optimize any graphics that are used to maintain a small file size.

#### Platform Constraints

* The system will be web-based and run on any system capable of accessing websites with a web-browser.
* There will be a database backend to store customer information.

#### Accuracy and Precision

* Each user will be represented by their email address and login with a password.
* The system administrator will be notified when an outage is detected.

#### Adaptability

* The system administrator will be able to maintain the user profiles.
* A user will be able to update their name and contact information of their own profile.
* Platform updates will be carried out by the system administrator.

#### Security

* The user will use their email address and password to login.
* If the user enters an invalid password three times consecutively their account will be locked, and they will be prompted to unlock it by way of a link sent via email.
* If the user forgets their password, they will be able to use the *forgot password* feature which will utilize the user’s email for the reset process.

### Functional Requirements

* The system shall validate user credentials when logging in.
* The system shall allow a user to reset their password.
* The system shall allow the administrator to update content.
* The system shall track defined package offerings.
* The system shall allow a system administrator to perform system updates.
* The system shall allow users to register for lessons and choose packages.
* The system shall maintain a schedule of availability for drivers and cars.
* The system shall allow the system administrator to download audit reports.
* The system shall track and audit all changes made to data.
* The system shall allow a system administrator to reset a user’s password.
* The system shall allow a system administrator to terminate user access.
* The system shall maintain security groups, roles, and related levels of access.

### User Interface

* The system administrator, secretary, and customers will be able to use the interface.
* The system administrator will be able to engage in all tasks related to the entire system.
* The secretary will be able create appointments on behalf of the customer and access their information.
* The customer will be able to create appointments and reset their password.
* All users will access the interface through a web-browser.

### Assumptions

* Users will have access to the Internet.
* Users will be using a modern web-browser.

### Limitations

* The development team has a fixed capacity.
* Banking transactions will need to be handled by a third-party processor.

### Gantt Chart

Timeline

Description automatically generated with medium confidence