# CS 255 Business Requirements Document Template

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## System Components and Design

### Purpose

*What is the purpose of this project? Who is the client and what do they want their system to be able to do?*

* The purpose of this project for DriverPass is to provide a environment for people to train for their driving tests and achieve better results. The owner of the company Liam has disclosed that there is short supply in this market as far as online driving training goes, so this project has potential to sell well.

### System Background

*What does DriverPass want the system to do? What is the problem they want to fix? What are the different components needed for this system?*

* DriverPass wants their system to offer effective driver training.
* The problem that the company DriverPass is trying to solve with this project, is that so many people are failing their driving tests, and there is a need for better driver training to help solve this.
* DriverPass wants us to build a product that provides online training and practice tests, as well as an option for road training.

### 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?*

* We need to provide a system that offers a user interface for training material, practice tests and the ability to reserve driving lessons. Reservations need to store different attributes for the lessons (Length of lesson, date and time, customer information).
* The system needs to give the user the ability to purchase different types of packages of driving lessons for purchase.
* The appearance of the user interface needs to be up to the standard of the client.
* The system needs to be secure, offering different roles for the administrators and employees of the company.
* The system needs to store data that can easily be accessed by its administrators. This data includes all customer information (Full name, address, phone number, state, and their credit card number, expiration date, and security code).
* The system needs to track all user activity to see who made what changes to the system.
* The system needs to be a web based application and fully stored on a cloud system.

## Requirements

### Nonfunctional Requirements

*In this section, you will detail the different nonfunctional requirements for the DriverPass system. You will need to think about the different things that the system needs to function properly.*

#### Performance Requirements

* DriverPass needs to be accessible from any computer or mobile device so it needs to be developed as a web-based application. Development work should be done to ensure that the application is functional in a mobile browser.
* The application needs to be able to run as fast as possible because there will be a lot of data being uploaded and downloaded from the site.

#### Platform Constraints

* The application will run in a browser so any operating system should be able to support it.
* There will be an extensive database system to contain and manage customer information as well as information regarding the services each customer is paying for. The database will be cloud-based because it’s storage capacity is flexible and will handle its own security.
* The application needs to have a back end accessible to a DriverPass administrator to manage customer information and service data.

#### Accuracy and Precision

* The system will have roles with different permissions for the different types of users.
  + Admins will be able to make changes to user accounts
  + Users will be able to select what service packages they wish to purchase
    - Users will also be able to change their password on their own through the system interface.
* DriverPass administrators will handle the registration of customers. There are several different fields of information that need to be entered so the system will give each field format constraints to help avoid any human errors.
  + Examples of these field constraints would be phone number/birth data formats as well as credit card number verification.

#### Adaptability

* We clearly stated to DriverPass that our coding expertise will be required to add or remove modules from the site. In the future we may be able to release an update that gives the IT admin more accessibility.
  + The IT admin will however be able to disable driving packages whenever desired.
  + The IT admin will also be able to make changes to any user information.
* The Department of Motor Vehicles makes unpredictable changes to driving school requirements so the site needs to be able to release updates on an as-needed basis.

#### Security

* Account creation is done by DriverPass employee which leaves no room for unwanted user access to the site.
* Customers will need to log in with a username and password to access the sit and they will be able to change their own password if needed.
* The cloud-based database’s security will always be up to date as it will be handled by the company that manages the cloud storage system.

### Functional Requirements

* The system shall validate user credentials when logging in.
* The system shall display a user interface that gives the user access to all products and services.
* The system shall allow lesson purchasing, scheduling, and online testing.
* The system shall store customer personal data and purchase information.
* The system shall provide administrators access to customer information.
* The system shall allow administrators to make changes to customer information.

### User Interface

* The user interface will meet the specific standards set by DriverPass.
* The user will be able to see:
  + Online test progress
  + Driver notes
  + Personal Information
  + Special needs
  + Driver Photo
  + Student Photo
* The user will be able to interact with the website to:
  + Takes online tests
  + Schedule driving lessons
  + Contact DriverPass
  + Change password

### Assumptions

* Users are able to handle a generic change password process
* Users have access to an internet browser via computer or mobile device.

### Limitations

* Due to the requirement for an adaptable web application that can function in the device of a mobile browser, the app will need to be developed for both a computer operating system and for a mobile operating system. This platform requirement will require more time and budget.
* Across the design there aren’t any technological requirements that a team of regular web developers couldn’t meet.

### Gantt Chart

A picture containing chart

Description automatically generated