CS 255 Business Requirements Document

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## System Components and Design

### Purpose

* The client is DriverPass.
* Provide online content for self-study.
* Provide interface to schedule in person driving training.
* Provide progress and status to customers and DriverPass administration.

### System Background

* DriverPass sees a void in the market for quality driver training.
* They want to fill this void by providing training to potential drivers.
* They hope to improve the pass rate of DMV written and driving tests.

### Objectives and Goals

* Provide customer profiles that are informative and interactive.
* Interface for DriverPass to register new clients.
* Options for users to modify their information and reset their password.
* An interface for making, cancelling, and modifying reservations.
* Ability to select pre-defined packages.
* Administrative ability to download reports and work online or offline.
* Provide user profiles with different privileges.
* Provide tracking of all changes.

## Requirements

### Nonfunctional Requirements

* Scalability – The system must be able to handle additional users without the loss of performance.
* Security – The user’s personal information and progress must be protected.
* Cloud Based – Driver pass does not want to support the infrastructure to house the application.
* Mobile Compatibility – All users need the ability to interface the application from mobile devices.
* Compliance – The system must stay up to date with DMV policy changes.
* User friendly interface – The system should be easy for both customers and DriverPass to use.

#### Performance Requirements

* The application needs to perform without unreasonable delays.
* Updates need to be applied as soon as any changes of DMV policies are issued.

#### Platform Constraints

* The system must be web based.
* The system must run in the cloud.
* The application must be compatible with all major mobile platforms.

#### Accuracy and Precision

* The application will distinguish between students, drivers, and DrivePass administration employees.
* The passwords will be case sensitive.

#### Adaptability

* Major code modification need not be available for the end-user to perform.
* Provisions to make minor changes such as disabling package options should be included.
* Reasonable provisions to adapt to foreseeable operation system updates and patches should be considered.
* DriverPass needs an interface for basic system maintenance.
* Source code not to be provide DrivePass.

#### Security

* DriverPass needs different security roles per user profile.
* The administrator will have access to all accounts.
* All log in to all accounts shall be password protected.
* All transactions shall be tracked and reported.
* Users will have a method to automatically reset passwords.

### Functional Requirements

* The system shall provide for user registration.
* The system shall provide user profiles with privilege levels.
* The system shall provide an administrator account with full permissions.
* The system shall provide the users with a way to modify their profile information.
* The system shall provide a way to make, cancel, and modify reservations.
* The system shall provide the user options to select predefined packages.
* The system shall provide administration reports that can be worked on online or offline.
* The system shall provide for drivers to enter notes.
* The system shall provide means for the customer to perform online self-study.
* The system shall provide users with a progress history.

### User Interface

* The user interface shall be clear, concise, and easy to use.
* The user interface shall be web based.
* The user interface shall provide the user with the ability to view progress.
* The user interface shall provide for easy package selection by the user.
* The user interface shall provide for efficient reservations including cancellation and modification.

### Assumptions

* We are assuming that all users will have internet connectivity.
* We are assuming all users have basic knowledge of web-based applications.
* We are assuming all users have devices that are not obsolete.
* We are assured that all users have access to a supported web browser.

### Limitations

* The application will not function without web connectivity.
* The applications may not run properly on obsolete or obscure operating systems or devices.
* Major operating system revision releases cannot be foreseen and may cause the application to not function.

### Gantt Chart

A calendar with multiple colored squares

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