DriverPass Requirements Document

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# CS 255 Business Requirements Document

## System Components and Design

### Purpose

* DriverPass wants an online computer system to aid in driving training.
* The DriverPass system should be able to be updated by users and employees.
* DriverPass wants a system that can handle the following items:
  + Offer training packages.
  + Administrative privileges can disable package offers.
  + Schedule driving lessons.
  + Provide online testing.
  + See past test results.
  + Display driver’s notes.
  + Manage user accounts.
  + Book driving lesson appointments.
  + Control administrative access (privileges).
  + Provide downloadable reports.
  + Track data updates (who changed what).
  + Track training drivers and available cars (avoid schedule conflicts)
  + User password reset options.
  + Update the company of DMV rule/law changes.

### System Background

* DriverPass is a driver’s education company that noticed that many people fail their initial driver’s exam, indicating a need for better training for new drivers.
* DriverPass wants to provide the tools and training to help more new drivers succeed.
* The system will require employee and user components to accomplish system tasks.

### Objectives and Goals

* Users and employees can book appointments.
* Users and employees can modify appointments.
* Users and employees can create user accounts.
* Users and employees can update user accounts.
* Control user access (e.g., they can only take exams if they purchased that package).
* Eligible users can take written exams online.
* Users can sign up for training packages.
* Users can review driver’s notes.
* Users can see written exam progress.
* Administrators can disable training package offers.
* Administrators can add/revoke system privileges.
* Administrators have access to reports.

## Requirements

### Nonfunctional Requirements

#### Performance Requirements

* Web browser accessible
* System should be reasonably fast (should not wait more than a few seconds for page to load)
* Updates when DMV changes rules
* Updates when users make/change/cancel appointments

#### Platform Constraints

* Requires database for customer information storage
* Runs on any platform with web browser (including mobile)
* Server runs on the cloud

#### Accuracy and Precision

* Change log – track changes to reservations or other system information
* Inform Owner of DMV policy changes
* User log-ins will have assigned roles that affects access rights

#### Adaptability

* Owner can remove existing driving appointment packages
* IT access for maintaining/modifying the system

#### Security

* User log-ins with passwords
* Different level rights and access for customers, owner, secretary, etc.
* Automatic password reset for users
* Ability for two-factor authentication
* Encryption of sensitive data

### Functional Requirements

* Online data access for owner
* Downloadable reports for owner
* Online user appointment scheduling
* Online user exams

### User Interface

* Customers can see tests taken and current progress
* Customers can see their personal information
* An area for any notes the driving instructor has for the student
* Photos of the student and their driving instructor
* Administrative pages for maintaining driving schedules and accessing change logs

### Assumptions

* Time constraints for appointment scheduling
* Assuming users will want mobile access and owner wants them to have that access as well
* Data encryption
* Need an API with DMV for policy updates

### Limitations

* Cannot implement owner’s wish to create new packages on his own
* No mobile app – must be run through a mobile web browser

### Gantt Chart

Graphical user interface, application, table

Description automatically generated