**5-2 Assignment: Project One Business Requirements Document**

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CS-255 System Analysis and Design 21EW1

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October 3, 2021

# CS 255 Business Requirements Document

## System Components and Design

### Purpose

* Client is DriverPass, a company that seeks to provide driver training
* Client requests a system to allow users to take online classes and practice tests
* Client requests system allow users to select in person training as well

### System Background

* DriverPass seeks to provide better training than currently exists for drivers
* DriverPass seeks to provide online classes and tests
* DriverPass seeks to provide on-the-road training

### Objectives and Goals

* System should allow owner to access data online from any computer or mobile device
* System should allow admin to provide users varying rights and roles
* System should allow for change tracking and provide activity reports
* System should allow user account creation and management
* System should allow customers to make reservations for driving lessons online
* System should allow office staff to maker reservations during in person office visits or phone calls
* System should track which user is matched with driver, time, and car
* System should include owner, IT support, secretary, and customer accounts
* System should schedule 10 cars
* System should allow users to select 3 package types: 6, 8, and 12 hour packages with each session 2 hours long
* System should allow owner to disable packages no longer offered
* System should capture first name, last name, address, phone, state, card number, expiration date, security code, and pickup and drop-off locations
* System should make sure drop-off and pickup locations match
* System should allow users to reset password if forgotten
* System should be cloud based and include backup and security management

## Requirements

### Nonfunctional Requirements

#### Performance Requirements

* The system should be accessible from any modern computer or mobile device
* The system should be able to accommodate the anticipated customer volume
* The system should be able to respond within an acceptable time frame
* The system should be able to allow administrative accounts to store information on their devices for offline access

#### Platform Constraints

* System should run on any modern device. This includes all computer and mobile operating systems.
* The system should use a cloud based architecture that allows the owners to outsource backup and security

#### Accuracy and Precision

* User account identifiers will not be case sensitive
* User email addresses will not be case sensitive
* User access codes will be case sensitive, whether tokens or passwords

#### Adaptability

* All aspects of the system that are reliant on third party software will be assessed weekly for functionality and security
* Lose of access from a particular platform is preferrable to a system breach
* Administrator(s) need access to the system code to assess security

#### Security

* User identifier and password are required for login
* All communication will be encrypted with a secure scheme
* After three failed login attempts the account login will not be available to user for an extended period sufficient to defend against brute force attempts
* After a failed login attempt the user will be notified via their email
* Password recovery will take place via the email address on file via a reset link sent to the email on file

### Functional Requirements

* System should check for brute force attacks and timeout login attempts from such accounts
* System should require a valid password and account identifier for access
* System should allow admin to access data online from any computer or mobile device
* System should allow admin to provide users varying rights and roles
* System should allow for change tracking and provide activity reports
* System should allow user account creation and management
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### User Interface

* System should allow interface to be accessible with mobile, desktop, and tablet computers
* System users include owners, administrators, drivers, and clients
* System interface should include branding and colors applied in a consistent manner
* System interface should receive input via the appropriate method for the device, whether capacitive touch or physical key and mouse.
* System interface should include login, contact, and a personalized page for each client
* System interface should include logo, test progress, contact information, special needs, driver and student photos, and driver notes for the main client page
* System interface should include an account creation choice on the login page

### Assumptions

* The user’s email account has not been compromised
* The user’s device has sufficient memory to load standard web pages
* Cloud products that are secure exist and are priced in a reasonable manner while accepting responsibility for the security of the data saved in the product

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### Limitations

* Technological and time limitations prevent the owner taking responsibility for managing the security and data of the system
* Budget constraints prevent the owner from hiring a competent developer to maintain the system and make alterations to fit the owners desire to add and remove modules

### Gantt Chart

### Chart, timeline Description automatically generated