Southern New Hampshire University

CS 255 Business Requirements Document Template

System Components and Design

Purpose
- DriverPass, the client, wants to train students for taking the driving test with their local DMV
- Currently, there is a high failure rate of students taking the driving test
- DriverPass wants to address and improve that failure rate

System Background
- DriverPass wants to increase the pass rate for the driving test
- Provide online class and practice tests
- Access data from anywhere, download files for offline access
- Provide on-the-road training (if desired)

Objectives and Goals
- Grant full access to certain users, and roles for other users
- Tracking history of changes made by clients
- Register users over the phone and collect all user info
- Identify and track which user is with which driver
- Can disable a package
- Appointment/reservation system to make, cancel, and modify appointments online
- Way to contact student and a way for DriverPass to be contacted
- Online user password reset

Requirements

Nonfunctional Requirements
Performance Requirements
- The system shall be web-based
- The system shall allow downloading of files such as reports or some information
- The system shall be maintained and updated by IT
- The system shall allow for disabling modules

Platform Constraints
- The system shall work on any platform
- The system shall work with any OS
- The system shall work with any modern browser

- The system shall need a database for storing records
- The system shall be cloud based

Accuracy and Precision
- The system shall be case-insensitive to input for everything other than passwords
- The system shall have an owner role
- The system shall have an admin role
- The system shall have a student role
- The system owner role shall have full access over all accounts
- The admin role should be able to have different rights assigned to it
- The system shall allow for roles to be assigned to users
- The system shall include logging/tracking
- The logging shall include who made a reservation, who canceled it, who modified it, which user is matched up with a certain driver, and the reservation time and car
- The system shall log errors
- The system shall notify admins of errors
- The system shall be able to print logs

Adaptability
- The system shall allow for adding, removing, or modifying driving packages
- The system shall allow for disabling modules
- The system shall allow for admins to make these changes
- The system shall work with platform updates for modern platforms with a web browser and internet connectivity
- The system shall connect with the DMV to get updates with new rules, policies, or sample questions
- The system shall provide notification when a DMV requirement has been updated

Security
- The system shall require a username and password to login
- The system shall allow for a student to reset their password
- The system shall allow for an admin to rest passwords
- The system shall have security and backups handled by the cloud provider
- The system shall encrypt all data at reset and when leaving the system

Functional Requirements
- The system shall let students take online driving tests
- The system shall let users schedule on-the-road training appointments
- The system shall allow users to modify scheduled appointments

- The system shall let users update their information
- The system shall let users contact support
- The system shall allow for contacting users
- The system shall allow resetting passwords
- The system shall have different driving packages
- The system shall allow for drivers to be assigned to appointments

User Interface

- The user shall interact with the interface through a web browser
- The user interface shall have student users and admin users
- The user interface shall show students an online tests section with tests the user has taken
- The online tests section shall show test information including name, time taken, score, and status
- The test status shall include not taken, in progress, failed, or passed
- The user interface shall show students a driver notes table including lesson time, start hour, end hour, and driver comments
- The user interface shall show students a user information section including first name, last name, address, phone, email, etc.
- The user interface shall allow students to update their information
- The user interface shall allow students to make on-the-road training appointments
- The user interface shall allow admins to update student information
- The user interface shall show students a special needs section
- The user interface shall show students the user's photo
- The user interface shall show students the driver's photo
- The user interface shall have a section for students to contact support

Assumptions

- There is a void in the market for training students for the driving test
- That driving students are interested in taking practice driving tests online

Limitations

- Registration – That people must call and talk to a person to get registered in the system
- Budget – How much money is available to spend on the system
- Support – There must be people to support users of the system

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Gantt Chart

	21-Jan	28-Jan	04-Feb	11-Feb	25-Feb	04-Mar	11-Mar	25-Mar	01-Apr	08-Apr	15-Apr	22-Apr	29-Apr	06-May
Collect Requirements	▓	▓												
Create Use Case Diagrams				▓										
Build Activity Diagrams for Each Use Case				▓	▓	▓								
Research User Interface Designs					▓	▓								
Build Class Diagram						▓								
Get Customer Approval						▓								
Build Interface							▓	▓						
Link DB to Interface								▓						
Build Business Logic									▓	▓	▓	▓		
Test System													▓	
Deliver System														▓
Sign-off Meeting														▓