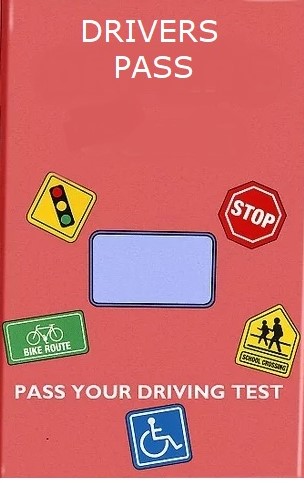


CS 255 Business Requirements Document for DriversPASS



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## System Components and Design

### Purpose

* DriversPass is a Drivers education course that is requires a streamlined web-based product with tools available for students to pass assist in passing their drivers education course. This can provide multiple services from reservation request for customers and employees, online assess from any location and device. Once logged in the Employee can enter full data analytics of the driver and any comments associated, users will be able to have access to limited items including personal information and progress data. This system will also provide online practice test and on-the road-training to prepare the student for their licensed test.

### System Background

* DriversPass had discovered that many people have failed their driving test at the DMV. Liam, the systems owner is starting the company to provide the required training for the customers. DriverPass wants the ability to take online classes, and practice test, while also providing on -the road training if selected. The system will have the ability to allow online user access data from anywhere, manage reservations, tracking the progress and activities or each customer, driver and transactions involved. Maintain all rules and policies set up by the Department of Motor Vehicles (DMV) with also support of different roles and responsibilities with different access rights for a user-friendly interface. Required components for system to properly to operated is desktop and mobile platform.

### Objectives and Goals

* DriversPass wanted the ability to access data online at any time and location.
* Have the ability to download reports that can be worked on offline if required.
* With Different rights and Roles, the IT Officer will need access to Reset passwords or block user accounts if needed. Have additional roles and responsibilities.
* Provide a tracking system of reservations, created, edited or cancelled by, while also printing out reports. For who’s responsible.
* Have the ability of customers to make change reservations or call or visit office to schedule with secretary.
* Identify the driver scheduled to go out with customer. Track which customer is linked with which driver and car.
* Users will have the ability to have 3 packages to choose from, with systems role to disable a package if needed. (Future of adding and removing modules at a future release.)
  + **Package One:** Six hours in a car with a trainer
  + **Package Two:** Eight hours in a car with a trainer and an in-person lesson where we explain the DMV rules and policies.
  + **Package Three**: Twelve hours in a car with a trainer, an in-person lesson where we explain the DMV rules and policies—*plus* access to our online class with all the content and material. The online class also includes practice tests.
* Driving sessions 2 hours long, customer personal information is stored.
* Link with DMV services, to maintain up-to-date information with script to notify business if updates are made to the with new rules, policies, or sample questions.
* Interface will be strictly through the cloud.

## Requirements

### Nonfunctional Requirements

#### Performance Requirements

* DriversPass should be a seamless transition between the different screens without any interruptions. All roles should be able to navigate throughout the interface with all applications organized and easily identified. All will be run through web-based on all applications.

#### Platform Constraints

* The System should be compatible with all popular operating systems desktop and mobile such as Window, MacOS, iOS, and Android.
* A database will be required and maintained in the background to store all required, courses, drivers, and customer information.
* An App will be developed for customers and drivers alike to log in to a mobile application, the APP will consist of all basic data, including courses, methods of payments, and logging required driving hours.
* Platform should be accessible through all web browsers, and mobile devices.

#### Accuracy and Precision

* Instructors can record all data, reservations, progress, and test results,

#### Adaptability

* The system should be easily adaptable in performing updates through DMV rules, policies, with the sample questions as well.
* The system should also have the ability to update or remove driver lesson packages, with little effort.

#### Security

* Customers and drivers should have a different profile. Customer profiles will have student access while Driver profiles will have more access to be able to load all required information.
* All user accounts should be stored on a separate database and transmitted through a secure VPN.
* There should be daily backups to have the information stored.
* If hacking has been determined, then the system should allow for appropriate means to shut the system down and restore from previous back up.

### Functional Requirements

| **Functional Requirement** | **Rationale for Requirement** |
| --- | --- |
| Access from any platform (ios, iMac, Windows, Android) | All administrators, driving instructors and student shall be able to access from any platform depending on the situation at home or by car. |
| Course updates | Administrators shall have the ability to add or remove course as needed to conform to the most up to date policies. |
| Authentication and Login of Users | All Users shall have a unique Student or Driver ID Number, User will create his or her own password with maximum 10 character and special characters. |
| Driver/Student Scheduling | The system shall have the ability to keep a time tracking system of student/instructor timing. To ensure there’s no conflict of driver/instructor times. |
| Reservation package request | Students shall have the option of 3 packages with the ability of the administrator or cancelling a package as necessary, the packages shall be defined by:  Package one: Six Hours in a car with Trainer  Package two: Eight hours in a car with a trainer and an in-person lesson where we explain the DMV rules and policies.  Package three: Twelve hours in a car with a trainer, and in-person lesson where explanations of the DMV rules and policies plus access to online class with all the content and material, the online classes shall include practice test. |
| Course Registration. | Students shall have the ability to register for courses, by submitting required information, which will include first and last name, address, phone number, with credit card information. Administrators shall have the ability to verify information and confirm the registrations. Administrators shall also have the ability to see who made the reservation and who cancelled it. |
| Gradebook for Drivers and viewing capability for students | Drivers for the giving course shall have access to enter and submit grades during desired week, Grades will show by percentage, complete, or incomplete with a comments section for driver. Students will have the ability to view their grades and comments entered in by the professor. |

### User Interface

* The shall be a user-friendly interface through all platforms with easy navigation.
* Administrators and Drivers should be able to have the most up to date DMV Policies through the States DMV website.
* The system should allow for scheduling modifying and cancelling reservations as required.

### Assumptions

* User should have basic computer knowledge and mobile skills to be able to navigate through the system.
* Instructors and student should provide accurate and valid information during registration process.
* The system shall be utilizing the cloud-based system for data backup and storage.

### Limitations

*Any system you build will naturally have limitations. What limitations do you see in your system design? What limitations do you have as far as resources, time, budget, or technology?*

* Future changes could be considered during design, but requirements will stick with initial system design.
* While the ability to remove packages as necessary, the ability to add a package is not included in this release, but future releases shall have the ability.

### Gantt Chart

References:

Miyerov, S. (2023). How to pass your driving test: 14 steps (with pictures). Retrieved from https://www.wikihow.com/Pass-Your-Driving-Test

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