# CS-255-X6101 Business Requirements Document

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## System Components and Design

### **Purpose**

* DriverPass wants to offer online classes and practice tests
  + Additionally provide on-the-road training
* DriverPass seeks to capitalize on the void in the market when it comes to training students for the driving test at their local department of motor vehicles
* Offer three lesson packages
  + Future ability to customize lesson packages

### **System Background**

* Must provide access to company data from anywhere, online and offline
  + Online from any computer or mobile device
* Keep track of reservations, cancelations, and last modifications
  + Ability to print an activity report of users who committed actions
* Ability to match drivers and cars to customers (across ten cars)

### **Objectives and Goals**

* Allow customers to be able to make reservations for driving lessons through online account
  + Customer should be able to select day and time for lessons
* Allow secretary to use this system to reserve slots for customers over the phone or in-office
* System should keep first name, last name, address, phone number, and state; credit card number, expiration date, and security code; and pickup/drop-off of customer
* Ability for customers to reset password to online account
* Access to cloud with security and backup provided by external provider(s)
* Notification over the Web of changes to DMV rules and regulations
* Track online test progress
  + Display test metadata (score, time taken, instructor notes, etc.)
* Scalability for future features

## Requirements

### Nonfunctional Requirements

#### Performance Requirements

* Should primarily function as a web-based application, thereby guaranteeing multiple personnel the ability to use the system wherever and whenever

#### Platform Constraints

* Requires database to store client data and account information
* Should function on any web browser

#### Accuracy and Precision

* Alert admins as soon as problem is detected in the system
* Different users have unique identification numbers
* Case-insensitive input

#### Adaptability

* Code body shall support addition, removal, and modification of users
* Distributed and incremental system updates

#### Security

* Two-factor authentication required
* Secure encrypted connection between client and server
* Brute force attack deemed practically impossible by current encryption standards

### Functional Requirements

* Shall maintain gradebook
* Shall maintain list of students
* Shall support announcements, assignments, and discussion posts
* Shall have two-factor authentication sign-in
* Shall have different instructor and student views
* Should provide easy feedback to developers

### User Interface

* Standard customer account maintenance user interface
* Favoring simplicity in access to functions instead of verbose functionality

### Assumptions

* Assuming the company has internet access
* Assuming the company staff are familiar with web-based applications

### Limitations

* Web-based applications mitigate much of the overhead