# CS 255 Business Requirements Document

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## System Components and Design

### Purpose

* Client – DriverPass
* Purpose: Improve training for students for the driving test at their local department of motor vehicles (DMV) and increase pass rate
* Online classes
* Practice tests
* on-the-road training
* DMV connection for updates/changes

### System Background

* Updated practice driving tests
* Updated online classes
* Schedule on-road Driver training
* Provide secure feedback to students
* Admin needs access to customer accounts to add, view, update, and remove
* Secretary needs access to make, update, cancel driver training appointments
* Drivers need access to system via mobile
* Customers need access to practice tests, test scores, driver training notes, online classes
* Customers need to be able to schedule driver training appointments online

### Objectives and Goals

* Online access from any computer or mobile device
* Downloadable reports
* Different roles/access for employees
* Change tracking
* Customer accounts for access to make reservations for on-the-road training
* Customer access to take classes, practice tests
* Customer access to class results/test results/driver training notes
* Flexible system to be able to make changes based on results/feedback from students and employees (inferred from discussion w/ client)
* Admin needs to be able to track customer training status and test scores
* Admin needs to set up and track driving instructors’ schedules and modify as necessary
* Admin needs to track and update vehicles available as well as maintenance schedules
* Admin needs to schedule vehicle maintenance per driver logs if issues with vehicles
* Need to have vehicle logs that are updated every time a vehicle is used by the instructors

## Requirements

### Nonfunctional Requirements

#### Performance Requirements

* Web-based application
* Needs to be fast – minimal processing delays
* System should respond in 2 seconds maximum – preferably in less than one second
* System should update real-time

#### Platform Constraints

* Able to run on PC, Laptop, Mobile
* Able to run on multiple operating systems (i.e. Windows, Linux, Mac, etc.)
* Need customer database that is expandable

#### Accuracy and Precision

* Customers will need a unique user/log-in ID that they choose (not case sensitive)
* Customers will be assigned a unique User ID number assigned by DriverPass (not case sensitive)
* DriverPass employees will have a unique ID number assigned to them (this will be a different format from the customer ID - not case sensitive)
* Users will require a password – case sensitive
* Customers will be able to contact Admin for issues
* Admin needs to be informed of any issues within 15 minutes

#### Adaptability

* Need to be able to make changes to users (add/modify/remove) without changing code
* Customers can add or modify their information after log-in
* Authorized admin users can remove users/ add Employees
* Employees can modify their information after log-in

#### Security

* Customers will need User Id (or user ID number) and password to log in
* Employees will need user ID and password to log in
* More than 5 log-in attempts will lock the account and need to be unlocked by admin
* Users can reset password by having e-mail sent to listed e-mail account or through verification (i.e. pre-selected questions/answers (answers are case sensitive)

### Functional Requirements

### User Interface

* The system shall validate user credentials when logging in. (from Project One Guidelines and Rubric)
* The system shall allow customers to open an account.
* The system shall allow users to update their personal account information.
* The system shall allow admin to unlock customer accounts.
* The system shall allow customers to schedule, modify, or cancel driver training appointments online.
* The secretary shall be able to schedule, modify, or cancel driver training appointments.
* The system shall allow the owner to access user data and download reports.
* The system shall keep track of customer test scores.
* The system shall allow users to access customer test scores and course progress.
* The system shall update customer scores and course progress real-time.
* The system shall notify admin whenever the DMV updates/modifies rules, policies, sample questions.
* The system shall allow admin to update the courses for any DMV updates/modifications to their rules, policies, sample questions.
* The system shall require special permission for employees to access system from mobile devices.
* The system shall allow Driving instructors to have access to system from mobile devices.
* The system shall require customers to of appropriate driving age and have an active driver’s permit to schedule on-the road training

### Assumptions

* Users have access to a computer or mobile device
* Users can read/write the English language
* The system can receive updates from the DMV or be alerted when updates are made

### Limitations

* The system will need a developer or a system analyst to add or remove modules
* Current time estimate is approximately 15 weeks to complete project – but this was not discussed with the client
* Budget was not discussed – unknown limitations

**Gantt Chart**

