# Alexis Fuerte

# CS-255 6 Jun 2021 CS 255 Business Requirements Document

## System Components and Design

### Purpose

* Provide online classes, practice tests, as well as on-the-road training
* Improve current driver training processes
* Increase pass rate of driving tests at DMV for those wanting to get their license

### System Background

* Access data online from any computer or mobile device
* Make reports downloadable
* Have roles and rights for different users
* Tracking for reservations and customer ability to make them
* Printable activity reports
* Provide data showing which customer is scheduled with which driver at whatever time
* Ability to choose a package/make customizable
* Admin ability to disable packages
* Current with DMV requirements
* Automatic password resets
* Shows test progress and history as well as stats

### Objectives and Goals

* Collect Requirements 22-Jan 4-Feb
* Create Use Case Diagrams 11-Feb 18-Feb
* Build Activity Diagrams for Each Use Case 15-Feb 9-Mar
* Research User Interface Designs 27-Feb 7-Mar
* Build Class Diagram 1-Mar 9-Mar
* Get Customer Approval 10-Mar 11-Mar
* Build Interface 12-Mar 24-Mar
* Link DB to Interface 24-Mar 3-Apr
* Build Business Logic 5-Apr 27-Apr
* Test System 27-Apr 7-May
* Deliver System 8-May 9-May
* Sign-off Meeting 9-May 10-May

## Requirements

### Nonfunctional Requirements

*In this section, you will detail the different nonfunctional requirements for the DriverPass system. You will need to think about the different things that the system needs to function properly.*

#### Performance Requirements

* Web-based over the cloud
* Needs to run smoothly
* Needs to send notification of update from the DMV

#### Platform Constraints

* Should run on most common platforms, with windows preferred.
* DMV data base to support information provided

#### Accuracy and Precision

* Input case sensitive
* Different users established through personalized account creation
* Immediately notify network manager or admin of issues found in the system

#### Adaptability

* Checks daily to ensure no updates have occurred from DMV
* Routine updates done nightly
* Users can be edited without modifying code by ADMIN

#### Security

* User can log in with phone number/email and password
* User has 3 attempts to correctly enter password or account is locked and requires a code from email to reset
* Two factor authentication is an available option that can be turned on by the user
* All personal data is stored encrypted and only accessible by admins

### Functional Requirements

* The system shall access data online from any computer or mobile device
* The system shall make reports downloadable
* The system shall have roles and rights for different users
* The system shall perform tracking for reservations and customer ability to make them
* The system shall have printable activity reports
* The system shall provide data showing which customer is scheduled with which driver at whatever time
* The system shall have the ability to choose a package/make customizable
* The system shall have an admin ability to disable packages
* The system shall be current with DMV requirements
* The system shall have automatic password resets
* The system shall show test progress and history as well as stats

### User Interface

* Top left box shows online test progress
* Bottom left box shows notes taken by the driver
* Top right box shows user information
* Bottom right box lists special needs, and shows a photo of the driver and the student
* Top is labeled with DriverPass logo

### Assumptions

* Registration happens on a different page, this is what it looks like after logging in
* Application can perform math necessary to show test scores/averages
* This interface is for a normal online webpage, but is different on mobile

### Limitations

* Work load – definitely a lot of tasks required
* Multi-platform – adaptability adds more time constraint

### Gantt Chart

**