# CS 255 Business Requirements Document Template

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DriverPass Requirements Document

## System Components and Design

### Purpose

* Client: DriverPass
* Purpose is to create a system to facilitate new driver training and practice

### System Background

* Problem: New drivers can’t drive well and fail their driving test
* System should facilitate new driver training and practice
* Components:
  + Cloud hosting
  + Web interface
  + Secure payments system

### Objectives and Goals

* Access from PC or Mobile
* Various Roles: Admin/User/Employee
* Logging/Reports
* Reservations/Payments
* Contact Info
* Driver Info, Customer Info, see pairings
* Driving package modification
* DMV Uplink
* Cloud storage/security
* Web page interface

## Requirements

### Nonfunctional Requirements

#### Performance Requirements

* System will be web-based as DriverPass wants users to be able to access from both computer and mobile devices.
* A mobile app might be a good expansion point
* System does not have any major visual or time dependencies, so a moderate or basic system should suffice.
* System should bounce updates with the DMV regularly depending on DMV change schedule.

#### Platform Constraints

* System does need a database for recording transactions, courses and users.
* Windows seems like a good service for DriverPass as they want to be hands off in regards to updates and security.
* Cloud solutions should be sufficient.

#### Accuracy and Precision

* Users will be discerned by roles determined in the system
* The system will send alerts to admin when issues put at risk user information, system security or stability

#### Adaptability

* User support/administration should be included
* Packages will need to be built that allows the admins to tailor classes
* System will need to handle rule and regulation changes from the DMV

#### Security

* Users should create profiles that have an associated password to log in.
* Two factor authentication should be offered due to having purchasing ability.
* Accounts should be lockable if an attempt to subvert security is detected.
* Notices can be sent to the user and admin emails regarding resetting passwords, either due to lost password, or suspicious activity
* Encrypted connections should be used to protect users

### Functional Requirements

The System shall:

* Validate user credentials at login
* Prompt new users to create a profile
* Allow users to reset their password
* Allow users to change their personal data
* Allow users to read course material
* Allow users to schedule/modify/cancel courses or driving practice.
* Allow users to view driver availability
* Allow admin to enable or disable packages
* Allow driving instructors to change their availability
* Allow admin to reset passwords or modify user accounts
* Allow users to make payments
* Communicate with the DMV to receive updates
* Sends notifications to users regarding orders or appointments (or errors)
* Send reports to admin regarding scheduling or financials
* Pair customers with drivers based on availability

### User Interface

* Interface should be browser based to reach all devices easily
* Interface needs to be specialized for Customers, IT, Admin, and Management
* IT focuses on maintaining and modifying the system
* Admin Can focus on scheduling drivers and customers
* Customers focus on their data and the courses or appointments pertaining to them
* Management focuses on statuses and reports
* Whether on computer or mobile, main interface method will be point and click. Buttons designed to make ease of use for taps should work fine for a mouse as well.

### Assumptions

* Assuming that there are no hidden issues with the process being kept from us.
* Assuming that packages will not need to be created at run time by basic admin users
* Assuming cloud solution will handle backup and security
* Assuming that DriverPass can afford cloud solution long-term

### Limitations

* Project sign off is scheduled for May 9. Must be done by then
* DriverPass has been quoted a price and we need to stay on that budget

### Gantt Chart

A screenshot of a computer

AI-generated content may be incorrect.