# CS 255 Business Requirements Document

# DriverPass

# 

## System Components and Design

### Purpose

*What is the purpose of this project? Who is the client and what do they want their system to be able to do?*

* Our Client, DriverPass, want us to create a system that will help them provide training and online testing to better prepare customer to obtain their driver licenses.

### System Background

*What does DriverPass want the system to do? What is the problem they want to fix? What are the different components needed for this system?*

* DriverPass want a system that will aid in providing easy and reliable service for it customers. This includes setting up driving appointment, online testing and getting feedback from their drivers.

### Objectives and Goals

*What should this system be able to do when it is completed? What measurable tasks need to be included in the system design to achieve this?*

* Client want the system to have multiple security access Levels to corresponding with employees and customers roles.
* Reservations should contain(Package type, First and Last name, Address, phone number, state, credit card number, expiration date and security code) as well as Pickup and drop off location.
* New reservations, any modification/ cancellations are logged for the client
* Client should be able to deactivate and activate the packages that are offered to the customers.
* User page which displays(Testing information, user information, driver’s notes, special needs and pic of driver and student)
* Online Testing information (Test Name, time taken, score and status)
* Linked to the DMV so client get notification of policy changes.

## 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.*

* Client wants to be able to access system on and offline. (Offline the system shouldn’t be able to be modify any information)

#### Performance Requirements

*What environments (web-based, application, etc.) does this system need to run in? How fast should the system run? How often should the system be updated?*

* Client wants the system to run off the web, preferable over the cloud.
* System wouldn’t need to run too fast, but fast enough that user shouldn’t have to wait between tasks.
* System should be updated constantly since it is web-based, not only for Performance, but security reasons as well.

#### Platform Constraints

*What platforms (Windows, Unix, etc.) should the system run on? Does the back end require any tools, such as a database, to support this application?*

* The Windows platform is widely used and won’t require any additional tools.

#### Accuracy and Precision

*How will you distinguish between different users?* *Is the input case-sensitive? When should the system inform the admin of a problem?*

* Each user will have a username and password. The input will be case-sensitive and require multiple authentication.
* System should inform the admin of a problem immediately.

#### Adaptability

*Can you make changes to the user (add/remove/modify) without changing code? How will the system adapt to platform updates? What type of access does the IT admin need?*

* The Ability to add, remove and modify user can be done without changing the code.
* The system will adapt to the platform updates as new features are introduced
* IT admin will need full access to modify what they see fit.

#### Security

*What is required for the user to log in? How can you secure the connection or the data exchange between the client and the server? What should happen to the account if there is a “brute force” hacking attempt? What happens if the user forgets their password?*

* User should require a UserName and a password to login.
* SSL can provide secure connection or data exchanges between the client and the server.
* If there is a brute force hacking attempt account should be suspended if three failed attempted is detected.The attempt should also be recorded.
* If user forgets password, it can be retrieve by requesting a password reset using the email that was signed up with.

### Functional Requirements

*Using the information from the scenario, think about the different functions the system needs to provide. Each of your bullets should start with “The system shall . . .” For example, one functional requirement might be, “The system shall validate user credentials when logging in.”*

* The system shall validate user credentials when logging in.
* The system shall log any new or cancel reservations.
* The system shall send security report to IT Admin if brute force or any other errors occur.
* The system shall only allow users to access information relevant to their clearance.
* The system shall allow drivers to leave feedback for their students.
* The system shall be viewable offline and only able to be modified online.
* The system shall offer courses and test as well as record progress for each student user.

### User Interface

*What are the needs of the interface? Who are the different users for this interface? What will each user need to be able to do through the interface? How will the user interact with the interface (mobile, browser, etc.)?*

* Interface need to be easy to navigate for all users.
* Client should have the ability to modify everyone's access as well as check security logs.
* IT should be able to maintain and modify the system .
* Secretary should be able to make appointments.
* User should be able to make appointment as well as cancel and modify reservations.
* Divers should be able to check what customers has reservations with them.As well as provide notes for the customer.
* Students need a central hub when they login that shows their information, Progress, driver notes, and any special needs. Clients also want the user as well as their assigned driver pictures shown.

### Assumptions

*What things were not specifically addressed in your design above? What assumptions are you making in your design about the users or the technology they have?*

* I assume that all users will have basic computer knowledge.
* That the system should be able to be access from phones and tablets since it’s web based.
* That users will be using a computer that was built after the year 2000.
* That Driverpass will have a personal email, rather then want messages sent to the system.

### 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?*

* Time restrictions, got a little over a few month.
* Budget, was not given yet

### Gantt Chart

*Please include a screenshot of the GANTT chart that you created with Lucidchart. Be sure to check that it meets the plan described by the characters in the interview.*

