# CS 255 Business Requirements Document

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## 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?*

* The purpose of this project is to create a system for their client, DriverPass. DriverPass wants to create a program to help people learning to drive pass their state DMV tests and obtain their drivers’ 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 wants to generate business teaching
* DriverPass wants to provide lessons
* DriverPass wants to help people pass their state DMV tests
  + They see a need for “better driver training”
* Require network of computers for scheduling
* A server to keep track of current, future, and past records
* Need a working user interface
  + Let users make own appointments
  + Let users purchase different packages

### 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?*

* This system should be able to keep track of past and current students with logins and personal information that can only be retrieved by authorized personnel.
* Students shall be able to schedule driving lessons
* Students shall be able to access online lessons through their logins - depending on package purchased

## 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

*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?*

* This system should be web-based on a website over cloud.
* This system needs to be fast enough for to use the website without any hinderance or problems.
* This system should be updated whenever DriverPass would like to add new features or whenever the DMV changes rules/regulations.

#### 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 system should be able to support all major operating platforms, namely Windows, Mac, iOS, Android, and Linux.
* The back end shall need a database to store information.
* Because the system will be over the cloud, any security and maintenance shall be taken care of.

#### 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?*

* Users will create username/password logins the first time they are visiting the site.
* Logins will be case sensitive.
* Administrator should be notified immediately of any problems

#### 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 system should be able to make changes to users without changing the code.
* The system shall be introduced to updates whenever DriverPass wants to add more features.
* The IT administrator will have full access to the system so if they need to make any changes, they can easily do so.

#### 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?*

* The user will need a username and password to log in
* The cloud is going to be the responsibly party for connection and data exchange
* The system should disable the account after X amount of tries to log in
* If a user forgets their password, they will use a “forgot password” link that will ask for the original email associated with the account. A reset link will be sent.

### 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 allow users to book lessons
* The system shall show the instructor the customer has for the lessons
* The system shall provide practice tests and classes
* The system shall be quick and efficient

### 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.)?*

* The interface must allow the customer the ability to make their own reservations for lessons, online classes, and tests.
* The interface must allow employees to make changes.
* The user should be able to interact with the interface from any internet capable device.
* The users are customers, employees, Owner of DriverPass, and IT Administrator.

### 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?*

* We are assuming all the technology is readably available to create this system
* We are assuming that all the users will have internet connected devices with the ability to browse

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### 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?*

* There is about 4 months to make this system
* There was no budget given
* There are not many employees to help create the system

### Gantt Chart

Timeline

Description automatically generated