Project: Vehicle Inventory

**Description:**

Creating a personal mini vehicle inventory system from scratch using your best knowledge and skills. The

system will have inventory of manufacturer and models (cars) of each manufacturer owned.

**Technology to be used:**

PHP 7 (OOP), MySQL (Normalized Database Schema), JavaScript (JQuery AJAX), HTML and CSS.   
Need to cover (Singleton, Abstract, Interface, with encapsulation and polymorphism)

***Page: Signup.***

The page should contain input box for user details name, email, password, phone and a submit button.

***Page: Login.***

The page should contain input box for user email, password a submit button.

***Page: Add Manufacturer.***

The page should contain input box for manufacturer name and a submit button.

***Page: Add Model.***

This page should have a manufacturer dropdown on the right side and model name textbox on the left side

(Both should be in the same line)

Add other details below about the car like “Color, manufacturing year, registration number, note and 2

Pictures max “. Pictures should be uploaded using any ajax plugin.

And lastly there should be a submit button.

***Page: View Inventory.***

This page should populate a table of all the models and manufacturers from the DB.

It should have the columns as below

|  |  |  |  |
| --- | --- | --- | --- |
| Serial Number | Manufacturer Name | Model Name | Available Count |
| 1 | Maruti | Alto | 3 |
| 2 | Tata | Sumo | 2 |
| 3 | Hyundai | I10 | 5 |
|  |  |  |  |

On clicking on the row, a popup will appear which will have details of the individual models like color,

manufacturing year etc. (Basically all details from page ***Add Model***) and a Sold / Purchase clickable link.

On clicking Sold / Purchase, the row will be updated by flag sold and the DB will be updated accordingly. Use soft delete. Manage flag fields by small int (0,1)

In addition to this, on Page ***View Inventory*** when users are viewing the inventory and incase a car is sold, the View

Inventory table for the column Available Count will have to be dynamically updated incase / decrease based on a car is sold or added at that moment.

Similarly incase the users are on any other page or pop up of the system, they should get an alert saying

"make model is sold" when a car is sold.

List will display only unsold cars for normal users and for admin will see all.

**Technical Detials:**

* Configure using Virtual host (ENV variables need to be used for different environments like production, development etc.)
* Implementation should be consist of PDO class and Registry Class.
* Solution should be a web application no refreshing or reloading pages during the time of add, edit of vehicles try to use ajax.
* Code should be clean, well optimized and should be up to the Industry standard.
* Database should be well-structured and optimized.
* Functionality of the forms should be AJAX based. Try to use caching if possible.
* Admin LTE theme can be used for the UI.