OOP in PHP: Car Records App

Scope *(This is not a complete SRS by any means.)*

Car hire staff record a car’s details and save them into a database. This app will be a prototype only. It will gather the make of car, the color of car and will calculate the amount of fuel left in the tank.

The fuel left will not be accurate to the litre. It will show only that a 60 litre car has used 30 litres for a half tank and the resultant amounts for a one-quarter and three-quarter usage.

No records will be added to a database.

No dates for car hire will be gathered.

If a client hired a blue Audi and the fuel gauge showed ‘one-half’, then the output to the screen will show:

**The customer returned the Audi . The customer drove a blue car. The driven car shows a tank level of 45 litres.**

To get started, here is the HTML file and some files with missing code.

<html>

<!--

car hire.html

-->

<head>

<title>Car hire</title>

<link rel="stylesheet" type="text/css" href = "car.css" />

</head>

<body>

<form action="car-records.php" method=post>

<fieldset>

<legend>Drive </legend>

<p ><label >Car Make</label>

 <input type="text" name="make" /></p>

<p ><label >Car Color</label>

 <input type="text" name="color" /></p>

<p ><label >Petrol Gauge</label>

<select name="gauge">

 <option value ="1.0">full </option>

 <option value ="0.75">three-quarters </option>

 <option value ="0.5">half </option>

 <option value ="0.25">full </option></p>

</select>

<p class ="submit" > <input type = "submit" value = "Add to database" /> </p>

</fieldset>

</form>

</body>

</html>

<?php

 /\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

 file: car.inc

 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/

 class car

 {

 var $make;

 var $color;

 var $gauge;

 function setMake($makeofcar)

 {

 *missing code*

 }

 function getMake()

 {

 return $this -> make;

 }

 function showMake()

 {

 echo "The customer returned the ". $this -> make." . ";

 }

 function setColor($colorofcar)

 {

 $this -> color = $colorofcar;

 }

 function getColor()

 {

 *missing code*

 }

 function showColor()

 {

 echo "The customer drove a *missing code*. " car.";

 }

 function setGauge($tanklevel)

 {

 $this -> gauge = $tanklevel;

 }

 function getGauge()

 {

 return $this -> gauge;

 }

 function showGaugeInLitres()

 {

 $tank = 60;

 echo " The driven car shows a tank level of *missing code*." litres.";

 }

 }

?>

An incomplete car-records.php file

<?php

 /\*\*\*\*\*\*\*\*\*\*\*\*\*\*

 file: car-records.php

 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/

 include('car.inc');

 $make = $\_POST['make'];

 $color= $\_POST['color'];

 $gauge = $\_POST['gauge'];

 $DrivenCar = new car();

 $DrivenCar -> setMake($make);

 $DrivenCar -> getMake();

 $DrivenCar -> showMake();

 $DrivenCar -> setColor($color);

 $DrivenCar -> *missing code*;

 $DrivenCar -> *missing code ;*

 $DrivenCar -> setGauge($gauge);

 $DrivenCar -> *missing code*;

 $DrivenCar -> showGaugeInLitres();

?>