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## **Aim:**

To create a Website and UI design for Online Petrol pump Management System which is dynamic to display the petro and to sell them using the Web Technology based concepts.

## **System Description:**

Online Petrol pump management system is to automate and streamline the pump operations, such as product of sales , maintenance , users , customers and petrol types , and atlast bill generator.

### **i)Frontend:**

The frontend refers to the client-side of the application, which is the part of the application that the user interacts with. It includes the user interface, which is usually created using HTML, CSS, and JavaScript. The frontend is responsible for rendering the user interface and handling user interactions such as button clicks, form submissions, and other events.

### **ii)Backend:**

This is a Simple PHP Project entitled Gas/Petrol Station Management System. This is a web-based application that provides the Gas or Petrol Station with an automated platform to manage their sales, customer credits, and customer payments. The application was developed using PHP and SQLite3 Database. This can help the management to store their records and easily retrieve the data. This has a simple user interface and user-friendly functionalities.

## **Server-side scripting:**

```
<?php
$host = "localhost";
$config_username = "root";
$password = "12345";
$db = "onlinecakeshop";
$conn = mysqli_connect($host, $config_username, $password, $db);
?>
```

## **Client-side scripting:**

```
<?php
if (isset($_GET['login_success']) && $_GET['login_success'] == 1) {
echo "<script>alert('Logged in!')</script>";
echo "<script>>window.location.assign('index.php')</script>";
}
if (isset($_GET['logout_success']) && $_GET['logout_success'] == 1) {
echo "<script>alert('Logged out!')</script>";
echo "<script>>window.location.assign('index.php')</script>";
}
```

```

}
session_start();
if (!empty($_SESSION['cart'])) {
    $printCount = count($_SESSION['cart']);
}
else {
    $printCount = 0;
}
if (!empty($_SESSION['user_users_id']) && !
empty($_SESSION['user_users_username'])) {
    $printUsername = $_SESSION['user_users_username'];
}
else {
    $printUsername = "None";
}
?>
<!doctype html>
<html lang="en">
<head>
<!-- Required meta tags -->
<meta charset="utf-8">
<meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-
fit=no">
<title>OCS - Home</title>
<!-- Bootstrap CSS -->
<link rel="stylesheet" href="css/bootstrap.min.css">
<link href="fonts/circular-std/style.css" rel="stylesheet">
<link rel="stylesheet" href="css/style.css">
<link rel="stylesheet" href="css/userpage.css">
<link rel="stylesheet" href="fonts/fontawesome/css/fontawesome-all.css">
<link rel="stylesheet" type="text/css" href="css/owl.carousel.min.css">
<link rel="stylesheet" type="text/css" href="css/owl.theme.default.min.css">
</head>
<body>
<!--
=====
= -->
<!-- main wrapper -->
<!--
=====
= -->
<div class="dashboard-main-wrapper">
<!--
=====
= -->
<!-- navbar -->
<!--
=====
= -->
<div class="dashboard-header">

```

```

<nav class="navbar navbar-expand-lg bg-white fixed-top">
<a class="navbar-brand" href="#">Cakes and Bakes Online Cake Shop</a>
<button class="navbar-toggler" type="button" data-toggle="collapse" data-target =
    "#navbarSupportedContent" aria-controls="navbarSupportedContent" aria-
    expanded="false" aria-label="Toggle navigation">
<span><i class="fas fa-bars mx-3
"></i></span>
</button>
<div class="collapse navbar-collapse" id="navbarSupportedContent">
<ul class="navbar-nav ml-auto navbar-right-top">
<li class="nav-item">
<a class="nav-link active" href="index.php">Home</a>
</li>
<li class="nav-item dropdown">
<a class="nav-link" href="#" id="navbarDropdownMenuLink1" data-
toggle="dropdown" aria-haspopup = "true" aria-expanded="false">Shop</a>
<div class="dropdown-menu dropdown-menu-right" aria-
labelledby="navbarDropdownMenuLink1">
<?php
require_once('config.php');
$select = "SELECT * FROM cake_shop_category";
$query = mysqli_query($conn, $select);
while ($res = mysqli_fetch_assoc($query)) {
?>
<a class="dropdown-item" href="shop.php?category=?php echo
$res['category_id'];?>">
<?php echo $res['category_name'];?>
</a>
<?php
}
?>
</div>
</li>
<li class="nav-item">
<a class="nav-link" href="cart.php"><i class="fas fa-shopping-cart"></i> <span
class="badge badge-pill badge-secondary"><?php echo $sprintCount;?></span></a>
</li>
<li class="nav-item">
<a class="nav-link" href="about.php">About us</a>
</li>
<li class="nav-item">
<a class="nav-link" href="contact.php">Contact</a>
</li>
<li class="nav-item dropdown nav-user">
<a class="nav-link nav-user-img" href="#" id="navbarDropdownMenuLink2" data-
toggle="dropdown" aria-haspopup="true" aria-expanded="false"></a>
<div class="dropdown-menu dropdown-menu-right nav-user-dropdown" aria-
labelledby="navbarDropdownMenuLink2">
<div class="nav-user-info">

```

```

<h5 class="mb-0 text-white nav-user-name"><?php echo $printUsername;?></h5>
<span class="status"></span><span class="ml-2">Available</span>
</div>
<a class="dropdown-item" href="account_users.php"><i class="fas fa-user mr-2"></i>Account</a>
<a class="dropdown-item" href="login_users.php"><i class="fas fa-sign-in-alt mr-2"></i>Login</a>
<a class="dropdown-item" href="logout_users.php"><i class="fas fa-power-off mr-2"></i>Logout</a>
</div>
</li>
</ul>
</div>
</nav>
</div>
<!--
=====
= -->
<!-- end navbar -->
<!--
=====
= -->
<!--
=====
= -->
<!-- wrapper -->
<!--
=====
= -->
<!-- <div class="dashboard-wrapper"> -->
<div class="container-fluid dashboard-content">
<div class="row">
<div class="col-xl-12 col-lg-12 col-md-12 col-sm-12 col-12">
<div id="carouselExampleControls" class="carousel slide" data-ride="carousel">
<div class="carousel-inner rounded">
<div class="carousel-item active">

<div class="carousel-caption d-md-block pb-5">
<h3 class="text-white">GOOD FOOD, GOOD LIFE</h3>
<p>Cakes are special, every celebration ends with something sweet like a cake and people remember it's all about the memories.</p>
<a href="about.php" class="btn btn-rounded btn-outline-light">Read More</a>
</div>
</div>
<div class="carousel-item">

<div class="carousel-caption d-md-block pb-5">
<h3 class="text-white">The cake we bake with love</h3>
<p>Take the shredded pieces of your life and bake a master cake out of it.</p>
<a href="about.php" class="btn btn-rounded btn-outline-light">Read More</a>

```

```
</div>
</div>
<div class="carousel-item">

<div class="carousel-caption d-md-block pb-5">
<h3 class="text-white">Love at first bite</h3>
<p>You can't be down when you are holding a cupcake.</p>
<a href="about.php" class="btn btn-rounded btn-outline-light">Read More</a>
</div>
</div>
<div class="carousel-item">

<div class="carousel-caption d-md-block pb-5">
<h3 class="text-white">A party without cake is really just a meeting.</h3>
<p>Cakes are special, every celebration ends with something sweet like a cake and
people remember it's all about the memories.</p>
<a href="about.php" class="btn btn-rounded btn-outline-light">Read More</a>
</div>
</div>
<div class="carousel-item">

<div class="carousel-caption d-md-block pb-5">
<h3 class="text-white">Eat a cake.</h3>
<p>Cakes are special, every celebration ends with something sweet like a cake and
people remember it's all about the memories.</p>
<a href="about.php" class="btn btn-rounded btn-outline-light">Read More</a>
</div>
</div>
<div class="carousel-item">

<div class="carousel-caption d-md-block pb-5">
<h3 class="text-white">View our categories.</h3>
<p>Cakes are special, every celebration ends with something sweet like a cake and
people remember it's all about the memories.</p>
<a href="about.php" class="btn btn-rounded btn-outline-light">Read More</a>
</div>
</div>
</div>
<a class="carousel-control-prev" href="#carouselExampleControls" role="button"
data-slide="prev">
<span class="carousel-control-prev-icon" aria-hidden="true"></span>
<span class="sr-only">Previous</span> </a>
<a class="carousel-control-next" href="#carouselExampleControls" role="button"
data-slide="next">
<span class="carousel-control-next-icon" aria-hidden="true"></span>
<span class="sr-only">Next</span> </a>
</div>
</div>
</div>
<div class="row m-5">
```

```

<div class="col-xl-12 col-lg-12 col-md-12 col-sm-12 col-12 text-center">
<h1>Our Features</h1>
</div>
<div class="col-xl-4 col-lg-4 col-md-4 col-sm-12 col-12">
<div class="card text-center p-3">
<div class="card-body">
<h1 class="card-title"><i class="fas fa-thumbs-up"></i></h1>
<h3 class="card-title">Quality</h3>
<p class="card-text">Our very first priority is the quality we never compromised in
the quality of our bakery products.</p>
</div>
</div>
</div>
<div class="col-xl-4 col-lg-4 col-md-4 col-sm-12 col-12">
<div class="card text-center p-3">
<div class="card-body">
<h1 class="card-title"><i class="fas fa-birthday-cake"></i></h1>
<h3 class="card-title">Fresh & natural</h3>
<p class="card-text">Our every product is fresh and made with natural ingredients we
do not use the artificial food ingredient in our products.</p>
</div>
</div>
</div>
<div class="col-xl-4 col-lg-4 col-md-4 col-sm-12 col-12">
<div class="card text-center p-3">
<div class="card-body">
<h1 class="card-title"><i class="fas fa-shipping-fast"></i></h1>
<h3 class="card-title">Free delivery</h3>
<p class="card-text">We provide free delivery to our customers. We deliver in 1 hour
from the time customer order the product.</p>
</div>
</div>
</div>
</div>
<div class="row mx-5">
<div class="col-xl-12 col-lg-12 col-md-12 col-sm-12 col-12 text-center">
<h1>Our Categories</h1>
</div>
<div class="col-xl-12 col-lg-12 col-md-12 col-sm-12 col-12">
<div class="owl-carousel owl-theme">
<?php
require_once('config.php');
$select = "SELECT * FROM cake_shop_category";
$query = mysqli_query($conn, $select);
while ($res = mysqli_fetch_assoc($query)) {
?>
<div class="item">
<div class="card h-100">
<div class="card-body">
<h3 class="card-title"><?php echo $res['category_name'];?></h3>

```

```

<a href="shop.php?category=<?php echo $res['category_id'];?>"><img class= "card –
Img " src = " uploads /<? php echo $res['category_image'];?>"></a>
</div>
</div>
</div>
<?php
}
?>
</div>
</div>
</div>
<div class="row m-5 hero-image2 rounded">
<div class="col-xl-12 col-lg-12 col-md-12 col-sm-12 col-12 p-3 hero-text">
<h1 class="text-dark">Who We Are</h1>
<p class="text-dark px-5">We are bakers, we bake the piece of joy. We believe cake
and baked goods are an expression of love.</p>
<p class="text-dark px-5">We bake from scratch daily using traditional methods and
quality ingredients. There are some things in life you just can't fake, and dang good
cake? That's one of them. We use organic whole milk, cage-free eggs, loads of real
fruit, pure extracts, amazingly delicious chocolate, and lots and lots of real butter to
create simply delicious treats the old-fashioned way.</p>
<a href="about.php" class="btn btn-rounded btn-success">Read More</a>
</div>
</div>
<div class="row mx-5 hero-image rounded">
<div class="col-xl-12 col-lg-12 col-md-12 col-sm-12 col-12 p-3 hero-text">
<h1 class="text-white">Always happy to hear from you.</h1>
<a href="contact.php" class="btn btn-rounded btn-brand">Contact Us</a>
</div>
</div>
</div>
<!--
=====
= -->
<!-- footer -->
<!--
=====
= -->
<div class="footer">
<div class="container-fluid">
<div class="row">
<div class="col-xl-6 col-lg-6 col-md-12 col-sm-12 col-12">
<div class="text-md-right footer-links d-none d-sm-block">
<a href="javascript: void(0);">About</a>
<a href="javascript: void(0);">Support</a>
<a href="javascript: void(0);">Contact Us</a>
</div>
</div>
</div>
</div>

```



```

</div>
<!--
=====
= -->
<!-- end footer -->
<!--
=====
= -->
<!-- </div> -->
</div>
<!--
=====
= -->
<!-- end main wrapper -->
<!--
=====
= -->
<!-- Optional JavaScript -->
<script src="js/jquery-3.3.1.min.js"></script>
<script src="js/bootstrap.bundle.js"></script>
<script src="js/jquery.slimscroll.js"></script>
<script src="js/main-js.js"></script>
<script type="text/javascript" src="js/owl.carousel.min.js"></script>
<script>
$(document).ready(function(){
$('.owl-carousel').owlCarousel({
loop: true, margin: 10, dots: 0, autoplay: 4000, autoplayHoverPause: true, responsive:
{
0:{items:1}, 600:{items:2}, 1000:{items:4}
}
});
});
</script>
</body>
</html>

```

I developed this project using the following:

**XAMPP v3.3.0** as my local webserver that has **PHP Version.**

- ▣ **PHP Language**
- ▣ **SQLite Database**
- ▣ **HTML**
- ▣ **CSS**
- ▣ **JavaScript**
- ▣ **jQuery**

- Ajax**
- Bootstrap**
- and more...

**Petrol Station Management System** has 2 types of system users which are the **Admin** and the **Cashier**. The **Admin User** is in charge of managing the important list in the system such as the petrol type and customer list. They are only the ones who can view, edit, or manage the customer credit, and payment details. The cashier user can only access the point of sale feature and can generate sales reports that he/she processed on the system. The POS feature has some functionalities that can help the management to calculate the customer transaction. This project generates a printable date-wise sales report and receipt.

## Project Features

### Admin Side

- Secure Login/Logout**
- Home Page**
- Customer List (CRUD)**
- POS or Point Of Sales**
- View Customer Debts and Payment List**
- Add New Customer Payment**
- Generate Printable Receipt**
- Generate Printable Date-wise Sales Report**
- Manage Petrol Type List (CRUD)**
- Manage User List (CRUD)**
- Manage Account Credentials**

## Cashier-Side

- ❑ Secure Login/Logout
- ❑ Home Page
- ❑ POS or Point Of Sales
- ❑ Generate Printable Receipt
- ❑ Generate Printable Date-wise Sales Report processed by her/him
- ❑ Manage Account Credentials

SNAPSHOTS :

## Customer Details

The screenshot displays the 'Customer List' interface of a Petrol Station management system. The top navigation bar includes links for Petrol Station, Home, Customers, Balances, POS, Sales, Users, and Maintenance, along with a user greeting 'Hello Administrator'. The main content area features a table with columns for #, Name, Status, and Action. A modal window titled 'Customer Details' is open, showing information for Customer Code 202111-0001, including the customer name 'Guest', email 'guest@sample.com', contact number '09113548798', address 'N/A', and status 'Active'. The modal also includes a 'Close' button.

**Customer List**

Showing 1 to 3 of 3 entries

#	Name	Status	Action
1	202111-0001 Guest	Active	Action
2	202111-0002 John Smith	Active	Action
3	202111-0003 Sample Company 101	Active	Action

**Customer Details**

**Customer Code:** 202111-0001

**Customer:** Guest

**Email:** guest@sample.com

**Contact:** 09113548798

**Address:** N/A

**Status:** Active

Close

# POS

Petrol Station Home Customers Balances POS Sales Users Maintenance

Hello Administrator ▾

## Transaction

Save Transaction

### Please Petrol Below

Search

E10	77.00	E85	100.00	Premium 95-octane unleaded	70.00
Premium 98-octane unleaded	75.00	Standard Unleaded 91	62.00		

#### Customer

202111-0002 - John Smith ▾

#### Liter

7.258064516129032

#### Amount

450 ▴ ▾

#### Discount %

0

#### Total

450

#### Payment Type

Cash ▾

#### Tendered Amount

0

#### Change

0

## Customer Balance Details Modal

Petrol Station Home Customers Balances POS Sales Users Maintenance

Hello Administrator ▾

### Payable Balances of 202111-0001 - Guest

Payment successfully added.

#### Debts List

DateTime	Transaction Code	Amount
2021-11-13 12:53 PM	202111-0002	3,678.000
Total		3,678.00

#### Payment List

DateTime	Payment Code	Amount
2021-11-13 01:58 PM	202111-0001	1,500.000
2021-11-13 02:03 PM	202111-0002	178.000
2021-11-13 02:04 PM	202111-0003	50.000
2021-11-13 02:06 PM	202111-0004	50.000
2021-11-13 02:07 PM	202111-0005	150.000
2021-11-13 02:08 PM	202111-0006	50.000
2021-11-13 02:08 PM	202111-0007	50.000
2021-11-13 02:09 PM	202111-0008	123.000
2021-11-13 02:18 PM	202111-0009	27.000
2021-11-13 02:43 PM	202111-0010	1,500.000
Total		3,678.00

#### Remaining Balance

0.00

+ Add New Payment

Print

Close

# Sales Report

Sales Report					
Filter					
Date From		Date To			
11/06/2021		11/13/2021		<a href="#">Filter</a> <a href="#">Print</a>	
#	Date	Receipt No	Petrol Info	Sales Details	Total Amount
1	2021-11-13	<a href="#">202111-0001</a>	E85 100.00	Liters: 3.50 Amount: 350.00 Discount: 7.00 (2%) Type: Cash	343.00
2	2021-11-13	<a href="#">202111-0002</a>	Premium 95-octane unleaded 70.00	Liters: 52.54 Amount: 3,678.00 Discount: 0.00 (0%) Type: Credit	3,678.00

## Conclusion:

In conclusion, the mini project on petrol pump management system can be a useful tool for simplifying the day-to-day operations of a admin side. By creating a web-based system that allows the owner and staff to manage products, orders, payments, and other aspects of the business, the project can help improve efficiency, reduce workload, and provide a better experience for customers. The project would require expertise in PHP, HTML, CSS, and JavaScript, as well as knowledge of database management and web development best practices. Overall, the project has the potential to make a significant impact on the success of petrol shop, and could be a valuable addition.

## References:

1. [https://www.w3schools.com/php/php\\_ref\\_overview.asp](https://www.w3schools.com/php/php_ref_overview.asp)
2. <https://www.w3schools.com/sql/default.asp>
3. <https://www.w3schools.com/jsrEF/default.asp>
4. <https://www.youtube.com/watch?v=TIYDI2-MCXQ&list=LL&index=25>

