**Lab Manual - Use PHP server-side scripting language to process and generate dynamic content on websites, such as handling form data and interacting with databases MySQL**

**Problem Statement –**

To implement the functionalities you've outlined using PHP and MySQL for your Indian culture blog application, we will break this down into manageable sections. Each section will cover creating database tables, PHP scripts for user registration, login, and order management, and a form for item submission.

1. **User Registration**

**1. Create a MySQL Table for Users**

First, create a database and a table to store user details. You can run the following SQL query in your MySQL database.

CREATE DATABASE indian\_culture;

USE indian\_culture;

CREATE TABLE users (

id INT AUTO\_INCREMENT PRIMARY KEY,

username VARCHAR(50) NOT NULL,

email VARCHAR(100) NOT NULL UNIQUE,

password VARCHAR(255) NOT NULL

);

**2. PHP Code for User Registration**

Create a file named register.php:

<?php

$servername = "localhost"; // Update if needed

$username = "root"; // Update if needed

$password = ""; // Update if needed

$dbname = "indian\_culture";

// Create connection

$conn = new mysqli($servername, $username, $password, $dbname);

// Check connection

if ($conn->connect\_error) {

die("Connection failed: " . $conn->connect\_error);

}

if ($\_SERVER['REQUEST\_METHOD'] == 'POST') {

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

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

$password = password\_hash($\_POST['password'], PASSWORD\_BCRYPT); // Hash the password

$sql = "INSERT INTO users (username, email, password) VALUES ('$username', '$email', '$password')";

if ($conn->query($sql) === TRUE) {

echo "Registration successful!";

} else {

echo "Error: " . $sql . "<br>" . $conn->error;

}

}

$conn->close();

?>

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<title>User Registration</title>

</head>

<body>

<h2>User Registration</h2>

<form method="POST" action="">

<label for="username">Username:</label>

<input type="text" name="username" required>

<br>

<label for="email">Email:</label>

<input type="email" name="email" required>

<br>

<label for="password">Password:</label>

<input type="password" name="password" required>

<br>

<input type="submit" value="Register">

</form>

</body>

</html>

**B. User Login**

**1. PHP Code for User Login**

Create a file named login.php:

<?php

session\_start();

$servername = "localhost"; // Update if needed

$username = "root"; // Update if needed

$password = ""; // Update if needed

$dbname = "indian\_culture";

// Create connection

$conn = new mysqli($servername, $username, $password, $dbname);

// Check connection

if ($conn->connect\_error) {

die("Connection failed: " . $conn->connect\_error);

}

if ($\_SERVER['REQUEST\_METHOD'] == 'POST') {

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

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

$sql = "SELECT \* FROM users WHERE email='$email'";

$result = $conn->query($sql);

if ($result->num\_rows > 0) {

$row = $result->fetch\_assoc();

if (password\_verify($password, $row['password'])) {

$\_SESSION['username'] = $row['username'];

echo "Login successful! Welcome, " . $row['username'];

} else {

echo "Invalid password.";

}

} else {

echo "No user found with that email.";

}

}

$conn->close();

?>

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<title>User Login</title>

</head>

<body>

<h2>User Login</h2>

<form method="POST" action="">

<label for="email">Email:</label>

<input type="email" name="email" required>

<br>

<label for="password">Password:</label>

<input type="password" name="password" required>

<br>

<input type="submit" value="Login">

</form>

</body>

</html>

**C. Create a MySQL Table for Orders**

Run the following SQL query to create the orders table.

CREATE TABLE orders (

id INT AUTO\_INCREMENT PRIMARY KEY,

customer\_name VARCHAR(100) NOT NULL,

item VARCHAR(100) NOT NULL,

quantity INT NOT NULL,

order\_date TIMESTAMP DEFAULT CURRENT\_TIMESTAMP

);

**1. PHP Code to Insert Order Details**

Create a file named order.php:

<?php

$servername = "localhost"; // Update if needed

$username = "root"; // Update if needed

$password = ""; // Update if needed

$dbname = "indian\_culture";

// Create connection

$conn = new mysqli($servername, $username, $password, $dbname);

// Check connection

if ($conn->connect\_error) {

die("Connection failed: " . $conn->connect\_error);

}

if ($\_SERVER['REQUEST\_METHOD'] == 'POST') {

$customer\_name = $\_POST['customer\_name'];

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

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

$sql = "INSERT INTO orders (customer\_name, item, quantity) VALUES ('$customer\_name', '$item', $quantity)";

if ($conn->query($sql) === TRUE) {

echo "Order placed successfully!";

} else {

echo "Error: " . $sql . "<br>" . $conn->error;

}

}

$conn->close();

?>

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<title>Place an Order</title>

</head>

<body>

<h2>Place an Order</h2>

<form method="POST" action="">

<label for="customer\_name">Customer Name:</label>

<input type="text" name="customer\_name" required>

<br>

<label for="item">Item:</label>

<input type="text" name="item" required>

<br>

<label for="quantity">Quantity:</label>

<input type="number" name="quantity" required min="1">

<br>

<input type="submit" value="Place Order">

</form>

</body>

</html>

**1. MySQL Table for Items**

Run the following SQL query to create an items table.

CREATE TABLE items (

itemID INT AUTO\_INCREMENT PRIMARY KEY,

itemName VARCHAR(100) NOT NULL,

itemQuantity INT NOT NULL

);

**2. PHP Code to Add and Display Items**

Create a file named add\_item.php:

<?php

$servername = "localhost"; // Update if needed

$username = "root"; // Update if needed

$password = ""; // Update if needed

$dbname = "indian\_culture";

// Create connection

$conn = new mysqli($servername, $username, $password, $dbname);

// Check connection

if ($conn->connect\_error) {

die("Connection failed: " . $conn->connect\_error);

}

if ($\_SERVER['REQUEST\_METHOD'] == 'POST') {

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

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

$sql = "INSERT INTO items (itemName, itemQuantity) VALUES ('$itemName', $itemQuantity)";

if ($conn->query($sql) === TRUE) {

echo "Item added successfully!";

} else {

echo "Error: " . $sql . "<br>" . $conn->error;

}

}

$result = $conn->query("SELECT \* FROM items");

?>

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<title>Add Item</title>

</head>

<body>

<h2>Add Item</h2>

<form method="POST" action="">

<label for="itemName">Item Name:</label>

<input type="text" name="itemName" required>

<br>

<label for="itemQuantity">Item Quantity:</label>

<input type="number" name="itemQuantity" required min="1">

<br>

<input type="submit" value="Add Item">

</form>

<h2>Items List</h2>

<ul>

<?php while ($row = $result->fetch\_assoc()): ?>

<li><?php echo $row['itemName'] . " - Quantity: " . $row['itemQuantity']; ?></li>

<?php endwhile; ?>

</ul>

</body>

</html>

<?php

$conn->close();

?>

**Summary**

* **User Registration and Login**: Handled through register.php and login.php, allowing users to create accounts and log in.
* **Order Management**: Orders can be placed using order.php, which inserts order details into the orders table.
* **Item Management**: Items can be added and displayed using add\_item.php,