WP M2

Implement session & cookie management using PHP

```
<!DOCTYPE html>
<html lang="en">
<head>
    <title>Session & Cookie Management</title>
</head>
<body>
    <?php
    session_start();
    if ($_SERVER['REQUEST_METHOD'] == 'POST') {
        $_SESSION['username'] = $_POST['username'];
        setcookie('username', $_POST['username'], time() + 3600);
        echo "<p>Session and Cookie set for user: {$_POST['username']}</p>";
    }
    if (isset($_SESSION['username']) && isset($_COOKIE['username'])) {
        echo "<p>Session Username: {$_SESSION['username']}</p>";
        echo "<p>Cookie Username: {$_COOKIE['username']}</p>";
    }
    ?>
    <form method="POST">
        <label for="username">Enter Username:</label>
        <input type="text" name="username" required>
        <button type="submit">Submit</button>
    </form>
</body>
</html>
```

Implement File Handling in PHP

```
<!DOCTYPE html>
<html lang="en">
<head>
    <title>File Handling</title>
</head>
<body>
    <form method="POST">
        <textarea name="content" placeholder="Enter content here..."
required></textarea><br><br>
```

```php
      <button name="action" value="write">Write</button>
      <button name="action" value="read">Read</button>
   </form>
   <hr>
   <?php
   $file = "data.txt";

   if ($_SERVER['REQUEST_METHOD'] == 'POST') {
      if ($_POST['action'] == 'write') {
         file_put_contents($file, $_POST['content'] . PHP_EOL, FILE_APPEND);
         echo "Content written to file.";
      } elseif ($_POST['action'] == 'read') {
         echo file_exists($file) ? nl2br(file_get_contents($file)) : "File not found.";
      }
   }
   ?>
</body>
</html>
```

Illustrate database and table creation using web based database administration tools

```php
<?php
$servername = "localhost"; // MySQL server hostname
$username = "root";      // Default username for MySQL
$password = "";          // Default password (leave blank for XAMPP)

// Step 1: Connect to MySQL
$conn = new mysqli($servername, $username, $password);
if ($conn->connect_error) {
   die("Connection failed: " . $conn->connect_error);
}

// Step 2: Create a new database
$database = "web_tool_demo"; // Name of the database
if ($conn->query("CREATE DATABASE IF NOT EXISTS $database") === TRUE) {
   echo "Database '$database' created successfully.<br>";
} else {
   echo "Error creating database: " . $conn->error . "<br>";
}

// Step 3: Select the new database
```

```php
$conn->select_db($database);

// Step 4: Create a new table
$table = "CREATE TABLE IF NOT EXISTS users (
    id INT AUTO_INCREMENT PRIMARY KEY,
    name VARCHAR(100) NOT NULL,
    email VARCHAR(100) UNIQUE NOT NULL,
    created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP
)";

if ($conn->query($table) === TRUE) {
    echo "Table 'users' created successfully.<br>";
} else {
    echo "Error creating table: " . $conn->error;
}

// Step 5: Display the actual table (even if it's empty)
echo "<h2>Users Table (Structure)</h2>";
echo "<table border='1'>
        <tr>
            <th>ID</th>
            <th>Name</th>
            <th>Email</th>
            <th>Created At</th>
        </tr>";

// Fetch and display rows (if any)
$result = $conn->query("SELECT * FROM users");
if ($result->num_rows > 0) {
    while ($row = $result->fetch_assoc()) {
        echo "<tr>
            <td>{$row['id']}</td>
            <td>{$row['name']}</td>
            <td>{$row['email']}</td>
            <td>{$row['created_at']}</td>
        </tr>";
    }
} else {
    // If no rows in the table, show a placeholder row indicating empty table
    echo "<tr><td colspan='4'>No data available in the 'users' table.</td></tr>";
}

echo "</table>";
```

```php
// Close the connection
$conn->close();
?>
```

Develop web pages for data handling using PHP (Insert, Delete and Update)

```php
<?php
// Step 1: Connect to the database
$conn = new mysqli("localhost", "root", "", "data_handling");
if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}

// Step 2: Create 'users' table if it doesn't exist
$tableQuery = "CREATE TABLE IF NOT EXISTS users (
    id INT AUTO_INCREMENT PRIMARY KEY,
    name VARCHAR(100) NOT NULL
)";
$conn->query($tableQuery);

// Step 3: Handle Form Submission
if ($_SERVER["REQUEST_METHOD"] === "POST") {
    $action = $_POST['action'];
    $id = $_POST['id'] ?? null;
    $name = $_POST['name'] ?? null;

    // Insert Data
    if ($action === "insert" && $name) {
        $stmt = $conn->prepare("INSERT INTO users (name) VALUES (?)");
        $stmt->bind_param("s", $name);
        if ($stmt->execute()) {
            echo "User inserted successfully.<br>";
        } else {
            echo "Error inserting user: " . $stmt->error . "<br>";
        }
        $stmt->close();
    }
    // Update Data
    elseif ($action === "update" && $id && $name) {
```

```php
    $stmt = $conn->prepare("SELECT id FROM users WHERE id = ?");
    $stmt->bind_param("i", $id);
    $stmt->execute();
    $result = $stmt->get_result();

    // Check if the ID exists
    if ($result->num_rows > 0) {
        // ID exists, update user
        $stmt = $conn->prepare("UPDATE users SET name = ? WHERE id = ?");
        $stmt->bind_param("si", $name, $id);
        if ($stmt->execute()) {
            echo "User updated successfully.<br>";
        } else {
            echo "Error updating user: " . $stmt->error . "<br>";
        }
        $stmt->close();
    } else {
        echo "Error: User with ID $id not found for update.<br>";
    }
}
// Delete Data
elseif ($action === "delete" && $id) {
    // Check if the ID exists before deleting
    $stmt = $conn->prepare("SELECT id FROM users WHERE id = ?");
    $stmt->bind_param("i", $id);
    $stmt->execute();
    $result = $stmt->get_result();

    if ($result->num_rows > 0) {
        // ID exists, delete user
        $stmt = $conn->prepare("DELETE FROM users WHERE id = ?");
        $stmt->bind_param("i", $id);
        if ($stmt->execute()) {
            echo "User deleted successfully.<br>";
        } else {
            echo "Error deleting user: " . $stmt->error . "<br>";
        }
        $stmt->close();
    } else {
        echo "Error: User with ID $id not found for deletion.<br>";
    }
} else {
    echo "Invalid data or missing fields.<br>";
```

```php
        }
}

// Step 4: Retrieve Data
$result = $conn->query("SELECT * FROM users");
?>
```

```html
<!DOCTYPE html>
<html>
<head>
    <title>Data Handling</title>
</head>
<body>
    <h1>Data Handling</h1>

    <!-- Insert Form -->
    <form method="POST">
        <input type="hidden" name="action" value="insert">
        <input type="text" name="name" placeholder="Name" required>
        <button type="submit">Insert</button>
    </form>

    <!-- Update Form -->
    <form method="POST">
        <input type="hidden" name="action" value="update">
        <input type="number" name="id" placeholder="ID" required>
        <input type="text" name="name" placeholder="New Name" required>
        <button type="submit">Update</button>
    </form>

    <!-- Delete Form -->
    <form method="POST">
        <input type="hidden" name="action" value="delete">
        <input type="number" name="id" placeholder="ID" required>
        <button type="submit">Delete</button>
    </form>

    <!-- Display Users -->
    <h2>Users</h2>
    <table border="1">
        <tr><th>ID</th><th>Name</th></tr>
        <?php while ($row = $result->fetch_assoc()) { ?>
            <tr>
```

```php
            <td><?= htmlspecialchars($row['id']) ?></td>
            <td><?= htmlspecialchars($row['name']) ?></td>
        </tr>
      <?php } ?>
    </table>
</body>
</html>

<?php
// Close the database connection
$conn->close();
?>
```