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Batch: A

Experiment No:8

8. Design a shopping application form with following fields[itemID, itemName, itemQuantity] Write a PHP script to add and display the items.

Objective: To learn about concept and implementation of JAVASCRIPT

Theory:

PHP stands for Hypertext Preprocessor. PHP is a very popular and widely-used open source server-side scripting language to write dynamically generated web pages. PHP was originally created by Rasmus Lerdorf in 1994. It was initially known as Personal Home Page. PHP scripts are executed on the server and the result is sent to the web browser as plain HTML. PHP can be integrated with the number of popular databases, including MySQL, PostgreSQL, Oracle, Microsoft SQL Server, Sybase, and so on

Data Types in PHP

The values assigned to a PHP variable may be of different data types including simple string and numeric types to more complex data types like arrays and objects.

PHP supports total eight primitive data types: Integer, Floating point number or Float, String, Booleans, Array, Object, resource and NULL. These data types are used to construct variables. Now let's discuss each one of them in detail.

What is PHP Arrays

Arrays are complex variables that allow us to store more than one value or a group of values under a single variable name.

Types of Arrays in PHP

There are three types of arrays that you can create. These are:

- **Indexed array/ Numeric array** — An array with a numeric key.
- **Associative array** — An array where each key has its own specific value.
- **Multidimensional array** — An array containing one or more arrays within itself.

PHP Database connection

Requirements: XAMPP web server procedure:

Start XAMPP server by starting

Apache and MySQL. Write PHP script

for connecting to XAMPP.

Run it in the local browser.

Database is successfully created which is based on the PHP code.

In PHP, we can connect to the database using XAMPP web server by using the following path. "localhost/phpmyadmin".

Conclusion: Thus the code has been successfully completed.

Code:

```
<?php
$conn = mysqli_connect('localhost', 'root', '', 'wtl_lab');
if (!$conn) {
    die("Connection failed: " . mysqli_connect_error());
}
if ($_SERVER["REQUEST_METHOD"] == "POST") {
    // Get form data
    $itemID = $_POST["itemID"];
    $itemName = $_POST["itemName"];
    $itemQuantity = $_POST["itemQuantity"];
    // Add item to database
    $sql = "INSERT INTO shopping_cart_lab_8 (itemID, itemName,
itemQuantity)
VALUES ('$itemID', '$itemName', '$itemQuantity')";
    if (mysqli_query($conn, $sql)) {
        echo "Item added successfully";
    } else {
        echo "Error adding item: " . mysqli_error($conn);
    }
}
?>
<!DOCTYPE html>
<html>
<head>
<title>Shopping Cart</title>
<style>
body {
background-color: #f2f2f2;
font-family: Arial, sans-serif;
}
h2 {
color: #333333;
}
form {
background-color: #ffffff;
padding: 20px;
margin-bottom: 20px;
border-radius: 5px;
}
```

```

----- margin-bottom: 20px;
}
th,
td {
padding: 8px;
border: 1px solid #dddddd;
text-align: left;
}
th {
background-color: #4CAF50;
color: #ffffff;
}
tr:nth-child(even) {
background-color: #f2f2f2;
}
input[type="text"],
input[type="number"] {
padding: 8px;
border-radius: 5px;
border: 1px solid #cccccc;
width: 100%;
}
input[type="submit"] {
background-color: #4CAF50;
color: #ffffff;
border-radius: 5px;
border: none;
padding: 8px 16px;
margin-top: 10px;
cursor: pointer;
}
input[type="submit"]:hover {
background-color: #3e8e41;
}
</style>
</head>
<body>
<h2>Shopping Cart</h2>
<form method="post">
<label for="itemID">Item ID:</label>
<input type="text" name="itemID" id="itemID">
<label for="itemName">Item Name:</label>
<input type="text" name="itemName" id="itemName">
<label for="itemQuantity">Quantity:</label>
<input type="number" name="itemQuantity" id="itemQuantity">
<input type="submit" value="Add Item">
</form>
<table>
<thead>
<tr>
<th>Item ID</th>
<th>Item Name</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<?php
$sql = "SELECT * FROM shopping_cart_lab_8";
$result = mysqli_query($conn, $sql);
if (mysqli_num_rows($result) > 0) {
while ($row = mysqli_fetch_assoc($result)) {
echo "<tr>";
echo "<td>" . $row["itemID"] . "</td>";
echo "<td>" . $row["itemName"] . "</td>";
echo "<td>" . $row["itemQuantity"] . "</td>";
echo "</tr>";
}
}
?>
</tbody>
</table>
<?php
$sql = "SELECT COUNT(*) as totalCount FROM shopping_cart_lab_8";
$result = mysqli_query($conn, $sql);
$row = mysqli_fetch_assoc($result);
echo "<p>Total Items: " . $row["totalCount"] . "</p>";
?>
</body>
</html>
<?php
mysqli_close($conn);
?>

```

Output (Screenshots):

The screenshot shows the phpMyAdmin interface for the database 'wtl_lab'. The current table is 'shopping_cart_lab_8'. A warning message at the top states: 'Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.' Below this, a green status bar indicates: 'Showing rows 0 - 8 (9 total, Query took 0.0003 seconds.)'. A SQL query is displayed: 'SELECT * FROM `shopping_cart_lab_8`'. The table data is as follows:

itemID	itemName	itemQuantity
10	Toys	2
10	Toys	1
11	Pen	8
10	Toys	8
12	Soft Toys	2
Console	Ift Toys	3

The screenshot shows a web browser window titled 'localhost / wt1_lab / s' with the URL 'localhost/wt1_lab/shop.php'. The page title is 'Shopping Cart'. It contains a form with fields for 'Item ID', 'Item Name', and 'Quantity', followed by a 'Add Item' button. Below the form is a table showing the current items in the cart:

Item ID	Item Name	Quantity
10	Toys	2
10	Toys	1
11	Pen	8
10	Toys	8
12	Soft Toys	2

A watermark 'Activate Windows Go to Settings to activate Windows.' is visible in the bottom right corner.