

Indian Institute of Information Technology Surat



Lab Report on Web Engineering (CS 603) Practical

Submitted by

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Lab No: 5

Aim: PHP - Working with Forms

Description: Write a PHP Script for followings. All following PHP tasks should be performed through HTML web pages only.

1. Create a database my_db.
2. Create a table person.
3. Insert some data into the table 'person'.
4. Inserting some data into person through HTML form.
5. Select some data from table 'person' using different queries.
6. Update some records with SQL query.
7. Display all the tables in the database my_db.
8. Displaying all the databases.

Source Code:

```
<?php
// Task 1: Create a database
$servername = "localhost";
$username = "root";
$password = "Iiit@Sur@t4";
$dbname = "my_db";
$conn = new mysqli($servername, $username, $password);
if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}
$sql = "CREATE DATABASE IF NOT EXISTS $dbname";
$conn->query($sql);
$conn->close();
// Task 2: Create a table
$conn = new mysqli($servername, $username, $password, $dbname);
if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}
// $sql = "DROP TABLE IF EXISTS person";
// $conn->query($sql);
$sql = "CREATE TABLE IF NOT EXISTS person (
    id INT AUTO_INCREMENT PRIMARY KEY,
    firstName VARCHAR(50) NOT NULL,
    surName VARCHAR(50) NOT NULL,
    age INT
)";
$conn->query($sql);
$conn->close();
// Task 3: Insert some data
$conn = new mysqli($servername, $username, $password, $dbname);
if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}
$sql = "INSERT INTO person (firstName, surName, age) VALUES
('Rahul Kumar', 'Singh', 20),
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        ('Hell', 'Hound', 30),
        ('Roman', 'Reigns', 48)";
// $conn->query($sql);
$conn->close();
if ($_SERVER["REQUEST_METHOD"] == "POST") {
    // Task 4: Insert data through HTML form
    if (isset($_POST['insertData']) && isset($_POST['firstName']) && isset($_POST['surName']) &&
isset($_POST['age'])) {
        $firstName = $_POST["firstName"];
        $surName = $_POST["surName"];
        $age = $_POST["age"];
        $conn = new mysqli($servername, $username, $password, $dbname);
        if ($conn->connect_error) {
            die("Connection failed: " . $conn->connect_error);
        }
        $sql = "INSERT INTO person (firstName, surName, age) VALUES ('$firstName', '$surName', $age)";
        $conn->query($sql);
        $conn->close();
    }
    // Task 6: Update record with SQL query
    if (isset($_POST['updateRecord']) && isset($_POST['idToUpdate']) && isset($_POST['newAge'])) {
        $newAge = $_POST["newAge"];
        $idToUpdate = $_POST["idToUpdate"];
        $conn = new mysqli($servername, $username, $password, $dbname);
        if ($conn->connect_error) {
            die("Connection failed: " . $conn->connect_error);
        }
        $sql = "UPDATE person SET age = $newAge WHERE id = $idToUpdate";
        $conn->query($sql);
        $conn->close();
    }
}
// Task 5: Select data with different queries
$conn = new mysqli($servername, $username, $password, $dbname);
if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}
$sql = "SELECT * FROM person";
$result = $conn->query($sql);
$sql = "SELECT * FROM person WHERE age > 25";
$result_filtered = $conn->query($sql);
$conn->close();

// Task 7: Display all tables in the database
$conn = new mysqli($servername, $username, $password, $dbname);
if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}
$sql = "SHOW TABLES";
$result_tables = $conn->query($sql);

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$conn->close();
// Task 8: Display all databases
$conn = new mysqli($servername, $username, $password);
if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}
$sql = "SHOW DATABASES";
$result_databases = $conn->query($sql);
$conn->close();
?>
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>PHP Script</title>
</head>
<body>
<!-- Task 4: HTML form to insert data -->
<form method="POST" action="<?php echo $_SERVER['PHP_SELF']; ?>" name="insertForm">
    <label for="firstName">First Name:</label>
    <input type="text" name="firstName" required>
    <label for="surName">Surname:</label>
    <input type="text" name="surName" required>
    <label for="age">Age:</label>
    <input type="number" name="age" required>
    <button type="submit" name="insertData">Insert Data</button>
</form>
<!-- Task 5a: Display selected data -->
<h2>Selected Data</h2>
<!-- Display all data -->
<?php while ($row = $result->fetch_assoc()) : ?>
    <p><?php echo $row["id"] . ". " . $row["firstName"] . " " . $row["surName"] . " - " . $row["age"] .
" years old"; ?></p>
<?php endwhile; ?>
<!-- Task 5b: Display filtered data -->
<h2>Filtered Data (Age > 25)</h2>
<?php while ($row = $result_filtered->fetch_assoc()) : ?>
    <p><?php echo $row["id"] . ". " . $row["firstName"] . " " . $row["surName"] . " - " . $row["age"] .
" years old"; ?></p>
<?php endwhile; ?>
<!-- Task 6: HTML form to update data -->
<h2>Update Record</h2>
<form method="POST" action="<?php echo $_SERVER['PHP_SELF']; ?>" name="updateForm">
    <label for="idToUpdate">ID to Update:</label>
    <input type="number" name="idToUpdate" required>
    <label for="newAge">New Age:</label>
    <input type="number" name="newAge" required>
    <button type="submit" name="updateRecord">Update Record</button>
</form>
<!-- Task 7: Display all tables -->

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<h2>All Tables in Database</h2>
<?php while ($row = $result_tables->fetch_row()) : ?>
    <p><?php echo $row[0]; ?></p>
<?php endwhile; ?>
<!-- Task 8: Display all databases -->
<h2>All Databases</h2>
<?php while ($row = $result_databases->fetch_row()) : ?>
    <p><?php echo $row[0]; ?></p>
<?php endwhile; ?>
</body>
</html>

```

Output:

Base Output:

First Name:
Surname:
Age:

Selected Data

1. Rahul Kumar Singh - 21 years old
2. Hell Hound - 30 years old
3. Roman Reigns - 48 years old

Filtered Data (Age > 25)

2. Hell Hound - 30 years old
3. Roman Reigns - 48 years old

Update Record

ID to Update:
New Age:

All Tables in Database

person

All Databases

assignment

information_schema

my_db

mysql

organization

Insert Output:

First Name:	<input type="text" value="Gojo"/>	Surname:	<input type="text" value="Jojo"/>	Age:	<input type="text" value="39"/>	<input type="button" value="Insert Data"/>
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Selected Data

1. Rahul Kumar Singh - 20 years old
2. Hell Hound - 30 years old
3. Roman Reigns - 48 years old
4. Gojo Jojo - 39 years old

Filtered Data (Age > 25)

2. Hell Hound - 30 years old
3. Roman Reigns - 48 years old
4. Gojo Jojo - 39 years old

Update Output:

<h3>Selected Data</h3> <ol style="list-style-type: none">1. Rahul Kumar Singh - 20 years old2. Hell Hound - 30 years old3. Roman Reigns - 19 years old4. Gojo Jojo - 39 years old							
<h3>Filtered Data (Age > 25)</h3> <ol style="list-style-type: none">2. Hell Hound - 30 years old4. Gojo Jojo - 39 years old							
<h3>Update Record</h3> <table><tr><td>ID to Update:</td><td><input type="text" value="3"/></td><td>New Age:</td><td><input type="text" value="19"/></td><td><input type="button" value="Update Record"/></td></tr></table>			ID to Update:	<input type="text" value="3"/>	New Age:	<input type="text" value="19"/>	<input type="button" value="Update Record"/>
ID to Update:	<input type="text" value="3"/>	New Age:	<input type="text" value="19"/>	<input type="button" value="Update Record"/>			

Conclusion:

- HTML forms use methods like GET and POST to send data to the server.
- PHP processes form data based on the request method (GET/POST).
- Proper syntax and validation are crucial for robust form handling.