

LAB REPORT

04

CSE416: Web Engineering Lab

Experiment Title: PHP MySql

Submitted To
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1. Objective

The objective of this experiment is to understand and practice basic PHP syntax, variables, data types, operators, and output statements by writing a simple PHP script. Additionally, it focuses on performing CRUD (Create, Read, Update, Delete) operations using PHP and MySQL.

2. Tools and Technologies Used

Tool / Technology	Purpose	
XAMPP	Run PHP and MySQL locally	
VS Code / Sublime Text	Writing and editing PHP code	
Web Browser (Chrome)	Testing PHP scripts	
MySQL Database	Store student data	

3. Explanation

- 1. Mysqli and mysqli_connect()
 - o mysqli connect() is used to establish a connection between PHP and MySQL.
 - o Svntax:
 - o \$conn = mysqli_connect(\$servername, \$username, \$password, \$dbname);
 - o If the connection fails, mysqli connect error() returns the error.
- 2. SQL Queries for Inserting and Retrieving Data
 - o INSERT INTO → Adds new records to a table.
 - \circ SELECT \rightarrow Retrieves records from a table.
 - o UPDATE → Updates existing records.
 - \circ Deletes records from a table.
- 3. Executing Queries with mysqli query()
 - o PHP executes SQL queries using mysqli_query(\$conn, \$sql) and returns results or success/failure status.
- 4. Fetching Results with mysqli_fetch_assoc()
 - o Converts query result into an associative array for easy access:

```
while($row = mysqli_fetch_assoc($result)) {
  echo $row['column_name'];
}
```

4. Code Implementation

Database and Table Creation

```
CREATE DATABASE user_info;
USE user_info;

CREATE TABLE user_info (
   id INT AUTO_INCREMENT PRIMARY KEY,
   name VARCHAR(100) NOT NULL,
   email VARCHAR(100) NOT NULL,
   dept VARCHAR(50) NOT NULL
);
```

db_connect.php

insert.php

```
<?php
include 'db_connect.php';
if ($_SERVER["REQUEST_METHOD"] == "POST") {
    $name = $ POST['name'];
    $email = $_POST['email'];
    $dept = $_POST['dept'];
    $sql = "INSERT INTO user_info (name, email, dept) VALUES ('$name',
'$email', '$dept')";
    if (mysqli_query($conn, $sql)) {
        echo "<div class='alert alert-success mt-3'>New record
inserted successfully!</div>";
    } else {
        echo "<div class='alert alert-danger mt-3'>Error: " .
mysqli_error($conn) . "</div>";
    }
<!DOCTYPE html>
<html>
<head>
 <title>Add Student</title>
```

```
link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/css/bootstrap.
min.css" rel="stylesheet">
</head>
<body class="bg-light">
<div class="container mt-5">
    <div class="row justify-content-center">
        <div class="col-md-6">
            <div class="card shadow">
                <div class="card-header bg-success text-white">
                     <h2 class="mb-0" style="font-size: 1.5rem; Text-</pre>
align: center;">Add Student</h2>
                </div>
                <div class="card-body">
                     <form method="POST" action="">
                         <div class="mb-3">
                             <label class="form-label">Name</label>
                             <input type="text" name="name"</pre>
class="form-control" required>
                         </div>
                         <div class="mb-3">
                             <label class="form-label">Email</label>
                             <input type="email" name="email"</pre>
class="form-control" required>
                         </div>
                         <div class="mb-3">
```

retrieve.php

```
<?php
include 'db_connect.php';

$sql = "SELECT * FROM user_info";

$result = mysqli_query($conn, $sql);
?>
<!DOCTYPE html>
<html>
<head>
```

```
<title>Student Records</title>
   link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/css/bootstrap.
min.css" rel="stylesheet">
</head>
<body class="bg-light">
<div class="container mt-5">
   <div class="card shadow">
       <div class="card-header bg-info text-white">
           <h2 class="mb-0">Student Records</h2>
       </div>
       <div class="card-body">
           <?php
           if (mysqli num rows($result) > 0) {
               echo "<table class='table table-striped table-
bordered'>";
               echo "<thead class='table-dark'>
                      >
                          ID
                          Name
                          Email
                          Department
                      </thead>
                    ";
              while ($row = mysqli_fetch_assoc($result)) {
                  echo "
```

```
".$row['id']."
                      ".$row['name']."
                      ".$row['email']."
                      ".$row['dept']."
                    ";
            }
            echo "";
         } else {
            echo "<div class='alert alert-warning'>No records
found.</div>";
         }
         ?>
      </div>
   </div>
</div>
</body>
</html>
```

update.php

```
<?php
include 'db_connect.php';

if ($_SERVER["REQUEST_METHOD"] == "POST") {
    $id = $_POST['id'];
    $name = $_POST['name'];
    $email = $_POST['email'];</pre>
```

```
$dept = $ POST['dept'];
    $sql = "UPDATE user info SET name='$name', email='$email',
dept='$dept' WHERE id=$id";
    if (mysqli query($conn, $sql)) {
        echo "<div class='alert alert-success mt-3'>Record updated
successfully!</div>";
    } else {
        echo "<div class='alert alert-danger mt-3'>Error: " .
mysqli error($conn) . "</div>";
    }
<!DOCTYPE html>
<html>
<head>
    <title>Update Student Record</title>
    link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/css/bootstrap.
min.css" rel="stylesheet">
</head>
<body class="bg-light">
<div class="container mt-5">
    <div class="row justify-content-center">
        <div class="col-md-6">
            <div class="card shadow">
```

```
<div class="card-header bg-primary text-white">
                     <h2 class="mb-0">Update Student Record</h2>
                 </div>
                 <div class="card-body">
                     <form method="POST" action="">
                         <div class="mb-3">
                              <label class="form-label">ID</label>
                              <input type="text" name="id" class="form-</pre>
control" required>
                         </div>
                         <div class="mb-3">
                              <label class="form-label">Name</label>
                              <input type="text" name="name"</pre>
class="form-control" required>
                         </div>
                         <div class="mb-3">
                              <label class="form-label">Email</label>
                              <input type="email" name="email"</pre>
class="form-control" required>
                         </div>
                         <div class="mb-3">
                              <label class="form-</pre>
label">Department</label>
                              <input type="text" name="dept"</pre>
class="form-control" required>
                         </div>
```

delete.php

```
<?php
include 'db_connect.php';

if ($_SERVER["REQUEST_METHOD"] == "POST") {
    $id = $_POST['id'];

    $sql = "DELETE FROM user_info WHERE id=$id";

    if (mysqli_query($conn, $sql)) {
        echo "<div class='alert alert-success mt-3'>Record deleted

successfully!</div>";
    } else {
        echo "<div class='alert alert-danger mt-3'>Error: " .

mysqli_error($conn) . "</div>";
```

```
}
<!DOCTYPE html>
<html>
<head>
    <title>Delete Student Record</title>
    link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/css/bootstrap.
min.css" rel="stylesheet">
</head>
<body class="bg-light">
<div class="container mt-5">
    <div class="row justify-content-center">
        <div class="col-md-6">
            <div class="card shadow">
                <div class="card-header bg-danger text-white">
                    <h2 class="mb-0">Delete Student Record</h2>
                </div>
                <div class="card-body">
                    <form method="POST" action="">
                         <div class="mb-3">
                             <label class="form-label">ID</label>
                             <input type="text" name="id" class="form-</pre>
control" required>
                        </div>
```

5. Output / Screenshots

Add Student		
Name		
Email		
Department		
	Add	
	1100	

Fig 5.1: Insert Form

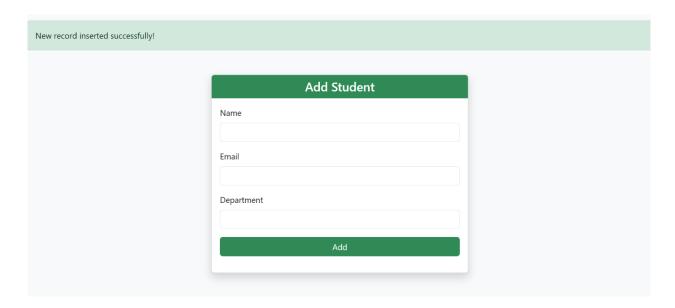


Fig 5.1: Insert Form filled and new record inserted successfully



Fig 5.3: Records retrieved in a table

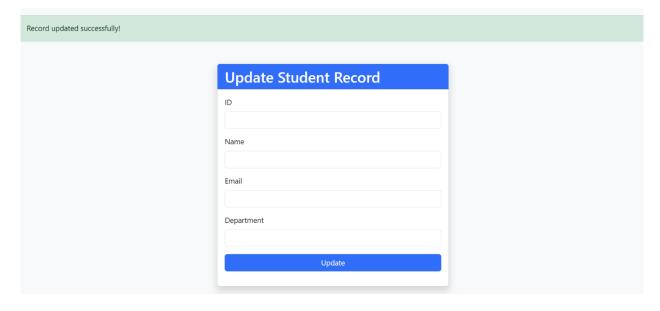


Fig 5.4: Record update successfully



Fig 5.4: Updated record success

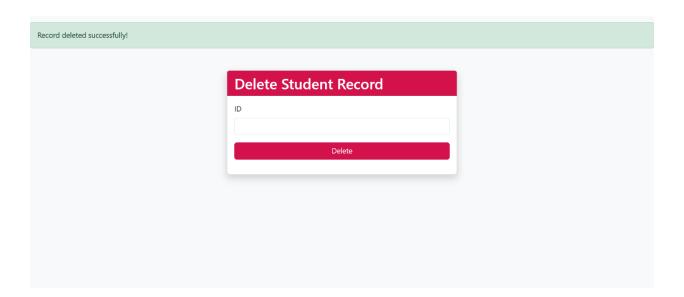


Fig 5.5: Record deleted successfully



Fig 5.6: Deleted record success

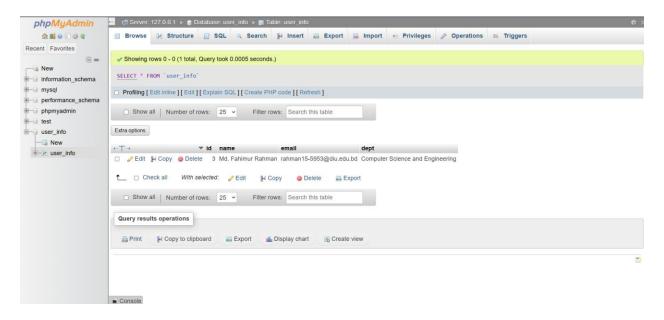


Fig 5.7: Successfully connect with database

6. Conclusion

- Learned to connect PHP with MySQL using mysqli connect().
- Performed CRUD operations: Insert, Retrieve, Update, Delete.
- Practiced PHP form handling, SQL queries, and displaying data in HTML tables.
- Gained hands-on experience for building dynamic web applications with PHP and MySQL.