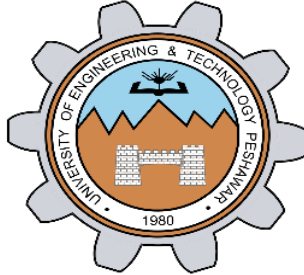# Interfacing PHP with MySQL

LAB REPORT # 6

Spring 2023

Data Base Management System Lab

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"On my honor, as student of University of Engineering and Technology, I have neither given nor received unauthorized assistance on this academic work."

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Submitted to:

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April 04, 2023

Department of Computer Systems Engineering

University of Engineering and Technology, Peshawar

Lab#06:

Interfacing PHP with MySQL

OBJECTIVES OF THE LAB

This lab aims at the understanding of

- Type of MySQL Drivers in PHP
- PHP-MySQL Interfaces

--------------Task#6.1--------------

Complete Example 3 by providing a suitable query, its result, and then freeing result variable.

Code

```php
<?php
//step 1. Database Connection +
Database Selection   //server name,
user, user's password, and database
//must be provided.
$servername = "localhost";
$username = "root";
$password = "";

$database = "lab6";

// Create Connection
$conn = new mysqli($servername,
$username, $password, $database);

//step 2. Check Connection   if ($conn-
>connect_error) {  die("Connection failed: " .
$conn-
>connect_error);  }
echo "Connected successfully ";
?>

<!DOCTYPE html>
<html>
<head>
<title>PHP MySqli (Object-Oriented)
Basics</title>
</head>
<body>
<?php
$sql = "select * FROM department ";
```

```php
$result =
mysqli_query($conn,$sql);    if
($result == false){        echo
"Eroor".mysqli_error($db);    }
else{        while($row =
mysqli_fetch_array ($result,
MYSQLI_ASSOC)){            printf("%s
%s\n",$row["id"],$row["name"]);
            ?>
            <br/>
            <?php        }
        mysqli_free_result($result);
    }


?>
</body>
```
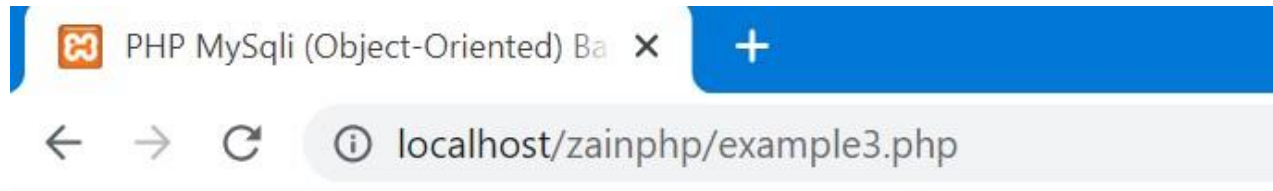
```
</html>                                    //step 6. Close Database Connection
                                           $conn->close();
<?php                                      ?>
```

Output

-----------------Task#6.2-----------------

Write PHP-MYSQLI Object-Oriented interface script that connects with one of the tables of your DBMS Lab Project (For instance, user table or accounts table or any of your choice). Perform the following:

a.   Apply the insert command on the table. Take the data from user via HTML Form constructs.

b.   Apply the update command on the table. Take the data from user via HTML Form constructs.

c.   Apply the delete query on the table. Take the data from user via HTML Form constructs.

d.   Apply the select query on the same table to retrieve data. Show the data in HTML Form Constructs.

Code

Add model

```
<!-- Add New -->
<div class="modal fade" id="addnew"
tabindex="-1" role="dialog"
arialabelledby="myModalLabel"
ariahidden="true">
     <div class="modal-dialog">         <div
class="modalcontent">

                    <div class="modalheader">
                         <button type="button" class="close"
datadismiss="modal"
ariahidden="true">&times;</button>
                    <center><h4 class="modal-title"
```

```html
id="myModalLabel">Add New</h4></center>
        </div>
        <div class="modalbody">
        <div class="container-fluid">
        <form method="POST" action="addnew.php">
          <div class="row">
            <div class="col-lg-2">
              <label class="control-label" style="position:relative;
top:7px;">Firstname:</label>
</div>            <div class="col-lg-10">
              <input type="text" class="form-control" name="firstname">
            </div>
          </div>          <div style="height:10px;"></div>          <div class="row">
            <div class="col-lg-2">
              <label class="control-label" style="position:relative;
top:7px;">Lastname:</label>
</div>            <div class="col-lg-10">
              <input type="text" class="form-control" name="lastname">
```

```html
          </div>
        </div>          <div style="height:10px;"></div>
        <div class="row">
          <div class="col-lg-2">
            <label class="control-label" style="position:relative;
top:7px;">Address:</label>
</div>            <div class="col-lg-10">
              <input type="text" class="form-control" name="address">
          </div>
        </div>
      </div>
      </div>
      <div class="modalfooter">
        <button type="button" class="btn btn-default" data-dismiss="modal"><span class="glyphicon glyphiconremove"></span>Cancel</button>            <button type="submit" class="btn btnprimary"><span class="glyphicon glyphicon-floppy-disk"></span>Save</a>
      </form>
      </div>

    </div>
  </div>
</div>
```

Addnew.php

```php
<?php    include('conn.php');

    $firstname=$_POST['firstname'];
    $lastname=$_POST['lastname'];
    $address=$_POST['address'];
     mysqli_query($conn,"insert into user (firstname, lastname, address) values
('$firstname', '$lastname', '$address')");
header('location:index.php');

?>
```

Button.php

```php
<!-- Delete -->
<div class="modal fade" id="del<?php echo
$row['userid']; ?>" tabindex="1" role="dialog"
arialabelledby="myModalLabel"
ariahidden="true">
    <div class="modal-dialog">          <div
class="modalcontent">
          <div class="modalheader">
              <button type="button" class="close"
datadismiss="modal"
ariahidden="true">&times;</button>
<center><h4 class="modal-title"
id="myModalLabel">Delete</h4></center
>
          </div>                        <div
class="modalbody">
          <?php
              $del=mysqli_query ($conn,"select *
from user where userid='".$row['userid']."'");
$drow=mysqli_fetc h_array($del);          ?>
```
```php
              <div class="container-fluid">
<h5><center>Are you sure to delete
<strong><?php echo ucwords($drow['firstname'].'
'.$row['lastname']); ?></strong> from the list? This
method cannot be undone.</center></h5>
</div>
          </div>                <div
class="modalfooter">              <button
type="button" class="btn btn-default" data-
dismiss="modal"><span class="glyphicon
glyphiconremove"></span> Cancel</button>
<a href="delete.php?id=<?php echo
$row['userid']; ?>" class="btn btndanger"><span
class="glyphicon glyphicon-trash"></span>
Delete</a>
          </div>

      </div>
    </div>
  </div>
<!-- /.modal -->
```

```html
<!-- Edit -->
    <div class="modal fade" id="edit<?php echo
$row['userid']; ?>" tabindex="-1" role="dialog"
arialabelledby="myModalLabel"
ariahidden="true">
      <div class="modal-dialog">          <div
class="modalcontent">
          <div class="modalheader">
              <button type="button" class="close"
datadismiss="modal"
ariahidden="true">&times;</button>
<center><h4 class="modal-title"
id="myModalLabel">Edit</h4></center>
          </div>
          <div class="modalbody">
          <?php
            $edit=mysqli_quer y($conn,"select *
from user where userid='".$row['userid']."'");
$erow=mysqli_fetc h_array($edit);          ?>
<div class="container-fluid">
          <form method="POST"
action="edit.php?id=<?php echo
$erow['userid']; ?>">
              <div class="row">
                <div class="col-lg-2">
                  <label
style="position:relative;
top:7px;">Firstname:</label>
</div>              <div class="col-lg-
10">
                    <input type="text" name="firstname"
class="form-control" value="<?php echo
$erow['firstname']; ?>">
                </div>
              </div>              <div
style="height:10px;"></div>
            <div class="row">
                <div class="col-lg-2">
                  <label
style="position:relative;
top:7px;">Lastname:</label>
</div>              <div class="col-lg-
10">
                  <input type="text"
name="lastname" class="form-control"
value="<?php echo $erow['lastname']; ?>">
                </div>
              </div>              <div
style="height:10px;"></div>
            <div class="row">
                <div class="col-lg-2">
                  <label
style="position:relative;
top:7px;">Address:</label>
</div>              <div class="col-lg-
10">
                  <input type="text"
name="address" class="form-control"
value="<?php echo $erow['address']; ?>">
                </div>
              </div>
          </div>
          </div>
          <div class="modalfooter">
            <button type="button" class="btn btn-
default"

data-dismiss="modal"><span
```

```html
class="glyphicon glyphiconremove"></span>
Cancel</button>                    <button
type="submit" class="btn btnwarning"><span
class="glyphicon glyphicon-check"></span>
Save</button>
                                        </div>
                                      </form>
                                    </div>
                                  </div>
                                </div>
```
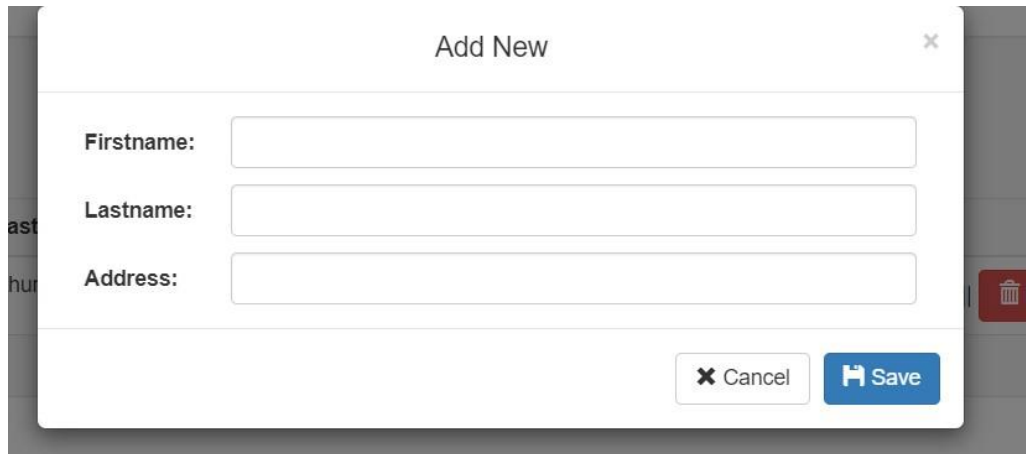
Conn.php

```php
<?php

//MySQLi Procedural
$conn = mysqli_connect("localhost","root","","sample"); if (!$conn) {
die("Connection failed: " . mysqli_connect_error());
}

?>
```

delete.php

```php
<?php     include('conn.php');     $id=$_GET['id'];     mysqli_query($conn,"delete
from user where userid='$id'");     header('location:index.php');
 ?>
```

edit.php

```php
<?php     include('conn.php');

   $id=$_GET['id'];

   $firstname=$_POST['firstname'];
   $lastname=$_POST['lastname'];
   $address=$_POST['address'];
mysqli_query($conn,"update user set
firstname='$firstname', lastname='$lastname',
address='$address' where userid='$id'");
header('location:index.php');

?>
```

Index.php

```php
<!DOCTYPE html>
```

```html
<html>
<head>
   <title>PHP/MySQLi CRUD Operation using
Bootstrap/Modal</title>     <script
src="https://ajax.googleapis.com/ajax
/libs/jquery/3.1.0/jquery.min.js"></s cript>
<link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com
/bootstrap/3.3.6/css/bootstrap.min.cs s" />
<script src="https://maxcdn.bootstrapcdn.com/
bootstrap/3.3.7/js/bootstrap.min.js">
</script>

</head>
<body>
<div class="container">
```

```php
    <div style="height:50px;"></div>    <div
class="well" style="margin:auto; padding:auto;
width:80%;">    <span style="font-size:25px;
color:blue"><center><strong>PHP/MySQL i
CRUD Operation using
Bootstrap</strong></center></span>
<span class="pull-left"><a href="#addnew"
data-toggle="modal" class="btn btn-
primary"><span class="glyphicon
glyphiconplus"></span> Add
New</a></span>        <div
style="height:50px;"></div>        <table
class="table tablestriped table-bordered table-
hover">        <thead>
        <th>Firstname</th>
        <th>Lastname</th>
        <th>Address</th>
        <th>Action</th>
    </thead>
    <tbody>        <?php
include('conn.php');
$query=mysqli_query($ conn,"select * from
`user`");            while($row=mysqli_fet
ch_array($query)){            ?>
            <tr>
<td><?php echo ucwords($row['firstname']);
?></td>

        <td><?php echo
ucwords($row['lastname']);
?></td>
            <td><?php echo
$row['address']; ?></td>            <td>
<a href="#edit<?php echo $row['userid']; ?>"
data-toggle="modal" class="btn btn-
warning"><span class="glyphicon glyphicon-
edit"></span> Edit</a> ||
<a href="#del<?php echo $row['userid']; ?>"
data-toggle="modal" class="btn btn-
danger"><span class="glyphicon glyphicon-
trash"></span> Delete</a>
<?php include('button.php'); ?>
</td>
            </tr>
            <?php
        }
    ?>
    </tbody>
    </table>
    </div>
    <?php include('add_model.php');
?>
</div>
</body>
</html>
```

Output

- **Add new**

- **Edit:**

Add New

Firstname:

Lastname:

Address:

✕ Cancel   💾 Save

- **Delete:**

----------------**Task#6.3**---------------- Perform
Task 6.2 using PHP-PDO (PHP Data Objects) interface.

Add model

```html
<!-- Add New -->
<div class="modal fade" id="addnew" tabindex="-1"
role="dialog" arialabelledby="myModalLabel"
ariahidden="true">
    <div class="modal-dialog">
        <div class="modal-content">          <div
class="modalheader">
            <button type="button" class="close" data-
dismiss="modal" aria-hidden="true">&times;</button>
            <center><h4 class="modal-title"
id="myModalLabel">Add New</h4></center>
        </div>
            <div class="modal-body">          <div
class="containerfluid">
            <form method="POST" action="add.php">
            <div class="row formgroup">
                <div class="colsm-2">
                    <label class="control-label"
style="position:relative; top:7px;">Firstname:</label>
                </div>
                <div class="colsm-10">
                    <input type="text" class="form-control"
name="firstname">
                </div>
            </div>
            <div class="row formgroup">
                <div class="colsm-2">
                    <label class="control-label"
style="position:relative;
top:7px;">Lastname:</label>
                </div>
                <div class="colsm-10">
                    <input type="text" class="form-
control" name="lastname">
                </div>
            </div>
            <div class="row formgroup">
                <div class="colsm-2">
                    <label class="control-label"
style="position:relative;
top:7px;">Address:</label>
</div>
                <div class="colsm-10">
                    <input           type="text"
class="form-control" name="address">
                </div>
            </div>
        </div>
        </div>
        <div class="modalfooter">
            <button type="button" class="btn btn-
default" data-
```

```html
dismiss="modal"><span class="glyphicon glyphiconremove"></span> Cancel</button>
<button type="submit" name="add" class="btn btnprimary"><span class="glyphicon glyphicon-floppy-disk"></span>
```

Save

Add

```php
<?php    session_start();
include_once('connection.php');

    if(isset($_POST['add'])){        $database =
new Connection();        $db = $database-
>open();        try{
        //make use of prepared statement to
prevent sql injection        $stmt = $db-
>prepare("INSERT INTO members
(firstname, lastname, address) VALUES
(:firstname, :lastname, :address)");        //if-
else statement in executing our prepared
statement        $_SESSION['message'] = (
$stmt->execute(array(':firstname' =>
```

Delete

```php
<?php    session_start();
include_once('connection.php');

    if(isset($_GET['id'])){
        $database = new Connection();        $db =
$database->open();        try{        $sql = "DELETE
FROM members WHERE id = '".$_GET['id']."'";
        //if-else statement in executing our query
$_SESSION['message'] = ( $db->exec($sql) ) ?
'Member deleted successfully' : 'Something went
```

Edit

```php
<?php    session_start();
include_once('connection.php');
```

```html
        </form>
        </div>

    </div>
    </div>
</div>
```

```php
$_POST['firstname'] , ':lastname' =>
$_POST['lastname'] , ':address' =>
$_POST['address'])]    )    ?    'Member    added
successfully' : 'Something went wrong. Cannot add
member';
        }        catch(PDOException $e){
        $_SESSION['message'] =
$e->getMessage();
    }

    //close connection
    $database->close();
    }    else{
    $_SESSION['message'] = 'Fill up add form
first';
    }    header('location: index.php');

?>
```

```php
wrong. Cannot delete member';        }
catch(PDOException $e){
        $_SESSION['message'] =
$e->getMessage();
    }

    //close connection
    $database->close();
    }    else{
$_SESSION['message'] =
'Select member to delete first';
    }    header('location: index.php');

?>
    if(isset($_POST['edit'])){        $database =
new Connection();        $db = $database-
>open();        try{        $id = $_GET['id'];
        $firstname =
$_POST['firstname'];
        $lastname =
$_POST['lastname'];
```

```php
        $address =
$_POST['address'];

        $sql = "UPDATE members SET firstname =
'$firstname', lastname = '$lastname', address =
'$address' WHERE id = '$id'";          //if-else
statement in executing our query
$_SESSION['message'] = ( $db->exec($sql) ) ?
'Member updated successfully' : 'Something went
wrong. Cannot update member';
        }        catch(PDOException $e){
            $_SESSION['message'] =
$e->getMessage();
        }

        //close connection
        $database->close();
    }    else{
        $_SESSION['message'] = 'Fill up edit form
first';
    }    header('location: index.php');

?>
```

Output

PHP CRUD Operation using PDO

+ New

ID	Firstname	Lastname	Address	Action
1	neovic	devierte	silay city	✔ Edit 🗑 Delete
2	gemalyn	cepe	carmen, bohol	✔ Edit 🗑 Delete
3	lee	apilinga	bacolod	✔ Edit 🗑 Delete
4	julyn	divinagracia	eb magalona	✔ Edit 🗑 Delete
5	cristine	demapanag	talisay	✔ Edit 🗑 Delete

Add new

Stored Data in PhpMyadmin: