ACTIVITY GUIDE
(UNIT 4)

ACADEMIC INTEGRITY

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Lab 4: HTML Forms and PHP (Accessing Database in PHP)

PHP Form Handling

The PHP superglobals:

$_GET and **$_POST** are used to collect form-data

Instructions:

1. Type the code below in your text editor and save as **employees.php** in **C:\xampp\htdocs\sample** directory (*it is the same folder **sample** inside **C:\xampp\htdocs** that we used from previous labs*).

```html
<!DOCTYPE html>
<style>
    body{
        font-family: Calibri, Candara, Segoe, Segoe UI, Optimize, Arial, sans-serif;
        background-image: url('stars.jpg');
        background-repeat:no-repeat;
        background-size: cover;
        color: white;
    }
    td.tlabel{
        width: 90px;
        text-align: right;
        padding-right: 10px;
    }
    .expand{
        width: 170px;
    }
</style>
<body>
        <h1>Employee Management </h1>
        <br>
        <h3>New Employee:</h3>
        <form action="addEmployee.php" method="get">
            <table style="width:100%">
                <tr>
                    <td class="tlabel">Name</td>
                    <td><input type="number" name="name"></td>
                </tr>
                <tr>
                    <td class="tlabel">Age</td>
                    <td><input type="number" name="age"></td>
                </tr>
                <tr>
                    <td class="tlabel">Salary</td>
                    <td><input type="number" step=".01" name="salary"></td>
                </tr>
                <tr>
                    <td class="tlabel">Percent Time</td>
                    <td><input type="text" name="percent_time"></td>
                </tr>
                 <tr>
                     <td class="tlabel">Date Hired</td>
                     <td><input class="expand" type="date" name="date-hired"></td>
                 </tr>
                <tr>
                    <td class="tlabel">Department</td>
                    <td>
                        <select class="expand" name="department">
                            <option value="" disabled="">--Select Department--</option>
                            <option value="1">DPSM</option>
                            <option value="2">Dummy Department</option>
                            <option value="2">Ghost Department</option>
                        </select>
                    </td>
                </tr>
                <tr>
                    <td class="tlabel"></td>
                    <td><input type="submit"></td>
                </tr>
            </table>
        </form>

    <h2>All Employees</h2>
    <br>
        <?php
            include 'employees_per_dept.php';
        ?>
    </table>
</body>
</html>
```

this php file is a php file that will display the list of employees per department, change the file name to the php file/files that you created from our previous activity

The "**action**" attribute of the form calls the "**addEmployee.php**" file when the "submit" input gets clicked. This causes the form to get submitted passing all the form data to "addEmployee.php"

2. Create the following file and save it in the **C:\xampp\htdocs\sample** as **addEmployee.php**

```php
<?php

include 'DBConnector.php';

$name = $_GET["name"];
$age = $_GET["age"];
$salary = $_GET["salary"];
$HireDate = $_GET["date-hired"];
$DeptID = $_GET["department"];
$Percent_Time = $_GET["percent_time"];

$sql = "INSERT INTO `employee` (`EmpID`, `EmpName`,`Age`, `Salary`, `HireDate`)
        VALUES (NULL, '$name', '$age', '$salary', '$HireDate');";
$result = $conn -> query($sql);

if($conn -> query($sql) == TRUE){
    $last_id = $conn -> insert_id;   //retrieving the ID of the newy inserted row

    //add a row in the work table to register the new employee into a department
    $query = "INSERT INTO `work` (`EmpID`, `DeptID`,`Percent_Time`)
        VALUES ('$last_id', '$DeptID', '$Percent_Time');";
    $result = $conn->query($query);

    //this will reload the employees.php file
    header("Location:employees.php")

}else{
    echo "Error: ".$sql . "<br/>" . $conn -> error ;
}

$conn -> close();
?>
```

Your output should be similar to the screenshot below after you access employees.php.

3. Modify **New Employee** form from **employees.php**

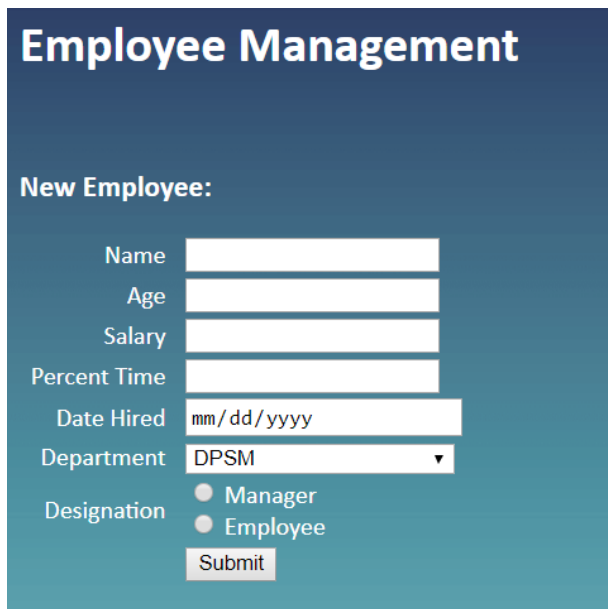Add another field to the form:

Use radio buttons for *Designation*:

- Manager
- Employee

Use radio buttons to ensure hat the user selects only one of the given options

To do this, add the encircled code to **employees.php**

```
        </select>
      </td>
    </tr>
    <tr>
      <td class="tlabel">Designation</td>
      <td>
        <input type="radio" name="designation" value="1">Manager<br>
        <input type="radio" name="designation" value="2">Employee<br>
      </td>
    </tr>
    <tr>
      <td class="tlabel"></td>
      <td><input type="submit"></td>
    </tr>
  </table>
</form>
```

The **New Employee** form should look like this:

4. Still in the **employees.php**, make the *Department* dropdown dynamic.

```
<td>
    <select class="expand" name="department">
        <option value="" disabled="">--Select Department--</option>
        <?php
            include 'allDepartment.php';
        ?>
    </select>
</td>
```

Change the <option> tags to calling a php file

Type the following and save as **allDepartment.php**

This is the php file that will be called by employees.php to make the dropdown dynamic

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

$sql = "SELECT * FROM department";
$result = $conn->query($sql);

if($result->num_rows > 0){
    while($row = $result->fetch_assoc()){
        echo "<option value='".$row['DeptID']."'>".$row['DeptName']."</option>";
    }
}
else{
    echo "0 results";
}

$conn->close();
?>
```

5. Modify the php file used in displaying all employees per department. Show the designation of each employee in each department.

Tip: add the following block of code in your php file for displaying all employees of each department(see Step 6 for the block of code that contains the snippet below)

```php
if ($row["MgrEmpID"] == $emp_row["EmpID"]) {
    echo "<td align='center'> Manager </td>";
}
else{
    echo "<td align='center'> Employee </td>";
}
```

The snippet above should result to the output below:

All Employees

DPSM

ID	Name	Age	Salary	Hire Date	Designation
3	Anthony Peterson	38	21000.5000	2019-07-01	Employee
41	Fred Joe	50	40000.0000	2019-11-01	Manager

Dummy Department

ID	Name	Age	Salary	Hire Date	Designation
2	River Dale	35	20000.0000	2019-06-01	Manager
4	Robert Brickson	40	19000.7500	2019-10-01	Employee

Ghost Department

ID	Name	Age	Salary	Hire Date	Designation
---	---	---	---	---	---

6. Delete and Edit data

Now, we're adding another column named "**actions**" that will contain **delete** and **edit** buttons. To do this, add another column at the right side of the table and name it "**actions**" in **employee.php**.

Then, modify the php file for displaying all employee per department by adding the encircled block of code (in blue):

```php
$emp_result = $conn -> query($sql_get_employees);
if($emp_result -> num_rows > 0){
    while($emp_row = $emp_result -> fetch_assoc()){
        if($emp_row['DeptID'] == 3){
            echo "<tr>".
                    "<td align='center'>".$emp_row["EmpID"]."</td>".
                    "<td align='center'>".$emp_row["EmpName"]."</td>".
                    "<td align='center'>".$emp_row["Age"]."</td>".
                    "<td align='center'>".$emp_row["Salary"]."</td>".
                    "<td align='center'>".$emp_row["HireDate"]."</td>";
            if($row["MgrEmpID"] == $emp_row["EmpID"]){
                echo"<td align ='center'> Manager </td>";       The block of code as mentioned in
            }                                                    Step 5
            else{
                echo "<td align='center'> Employee </td>";
            }
            echo "<td align='center'>".
                    "<form action='deleteEmployee.php' method='post'>".
                        "<input type='text' style='display:none;' name= 'EmpID' value='".$emp_row["EmpID"]."'>".
                        "<button type='button'>Delete</button>".
                    "</form>".
                    "<form action='editEmployee.php' method='post'>".
                        "<input type='text' style='display:none;' name='EmpID' value='".$emp_row["EmpID"]."'>".
                        "<button type='button'>Edit</button>".
                    "</form>".
                "</td>";
            echo "</tr>";
        }
```

The webpage will display two buttons: **Delete** and **Edit** button for each row of employees as shown below:

DPSM

ID	Name	Age	Salary	Hire Date	Designation	Actions
3	Anthony Peterson	38	21000.5000	2019-07-01	Employee	Delete Edit
41	Fred Joe	50	40000.0000	2019-11-01	Manager	Delete Edit

Dummy Department

ID	Name	Age	Salary	Hire Date	Designation	Actions
2	River Dale	35	20000.0000	2019-06-01	Manager	Delete Edit
4	Robert Brickson	40	19000.7500	2019-10-01	Employee	Delete Edit

TASKS:

Create the following php files for the new buttons (*delete* and *edit*) to work:

1. **deleteEmployee.php**

　　Use $_POST["EmpID"] to access the ID of the employee in the current row

　　Delete this employee from the database

　　After this, redirect to index.php

2. editEmployee.php

　　Use $_POST["EmpID"] to access the ID of the employee in the current row

　　Display a form with fields filled in what all the information of an employee (*similar to Add New Employee Form but with initial values already*)

　　Don't forget to add a "**cancel**" and "**submit**" buttons in the edit form

　　After this, redirect to index.php

Note: You can check your database if your php files for deleting and editing employees in the database indeed work.

Take a screenshot of the entire screen of your laptop/desktop (should include the Taskbar of your desktop – **do not crop your screenshot**) after displaying the output in your browser.

Put this screenshot in a document file that you will submit as an output for this Laboratory exercise.

Also, apart from the output, include in your document file the process(es) (with screenshots) of how you were able to get the output and explain the process(es).

Submission Instructions:

　　Save your file as **LastnameFirstLetterOfFirstName_Lab4.pdf**. Zip your pdf file together with all the **php** files and images used for this laboratory exercise and submit**.**

　　Please take note of the use of **Camel Case** for your filename (also applies for zip file but NOT for php files). **Those who are not following instructions will have a 20% deduction on their Laboratory exercise**.

　　Upload your zipped file in the UPV LMS (on or before May 23, 2022 11:59 PM).