Step 1: Set Up Your Development Environment

Before you start coding, make sure you have the following installed on your local development machine:

- **XAMPP/WAMP/LAMP** or any local server stack (Apache, PHP, MySQL)
- **PHP** (7.x or higher recommended)
- **MySQL** (ensure MySQL CLI is installed and working)

You will also need a text editor (like VSCode, Sublime Text, or any other) for writing your PHP code.

Step 2: Create the MySQL Database and Table

1. **Access MySQL CLI**
   Open the MySQL CLI. You can do this through a terminal or command prompt, depending on your operating system. Run:

   ```
   bash
   Copy code
   mysql -u root -p
   ```

   You will be prompted to enter your MySQL root password.

2. **Create a Database**
   Create a new database where employee records will be stored. For example:

   ```
   sql
   Copy code
   CREATE DATABASE employee_db;
   ```

3. **Use the Database**
   Switch to the newly created database:

   ```
   sql
   Copy code
   USE employee_db;
   ```

4. **Create the Employee Table**
   Now, create the table to store employee records. For simplicity, let's assume the table will store basic information like employee ID, name, position, and salary.

   ```
   sql
   Copy code
   CREATE TABLE employees (
       id INT AUTO_INCREMENT PRIMARY KEY,
       name VARCHAR(100) NOT NULL,
       position VARCHAR(100) NOT NULL,
       salary DECIMAL(10, 2) NOT NULL
   );
   ```

5. **Verify the Table**
   You can check if the table was created successfully by running:

   ```
   sql
   Copy code
   SHOW TABLES;
   ```

   You should see `employees` listed.

Step 3: Set Up Your PHP Project

1. **Create a Project Folder**
   Create a folder in your server's document root (e.g., `htdocs` for XAMPP) called `employeeApp`.
2. **Create Database Connection File**
   Inside the project folder, create a file `db.php` that will handle the MySQL connection:

   ```
   php
   Copy code
   <?php
   $servername = "localhost";
   $username = "root"; // or your MySQL username
   $password = ""; // MySQL password
   $dbname = "employee_db"; // the database you created

   // Create connection
   $conn = new mysqli($servername, $username, $password, $dbname);

   // Check connection
   if ($conn->connect_error) {
       die("Connection failed: " . $conn->connect_error);
   }
   ?>
   ```

Step 4: Create PHP File for Adding Employee Records

1. **Create a Form for Adding Employees**
   Create a new file `addEmployee.php` in your project folder. This file will contain the form for adding new employees:

   ```
   php
   Copy code
   <?php
   include('db.php');

   if ($_SERVER['REQUEST_METHOD'] == 'POST') {
       // Collect form data
       $name = $_POST['name'];
       $position = $_POST['position'];
       $salary = $_POST['salary'];

       // Prepare SQL query to insert data into the table
   ```

```
    $sql = "INSERT INTO employees (name, position, salary)
            VALUES ('$name', '$position', '$salary')";

    if ($conn->query($sql) === TRUE) {
        echo "New record created successfully";
    } else {
        echo "Error: " . $sql . "<br>" . $conn->error;
    }
}
?>

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-
scale=1.0">
    <title>Add Employee</title>
</head>
<body>
    <h2>Add Employee</h2>
    <form method="POST" action="addEmployee.php">
        <label for="name">Name:</label>
        <input type="text" id="name" name="name" required><br><br>
        <label for="position">Position:</label>
        <input type="text" id="position" name="position"
required><br><br>
        <label for="salary">Salary:</label>
        <input type="number" id="salary" name="salary"
required><br><br>
        <input type="submit" value="Add Employee">
    </form>
</body>
</html>
```

Step 5: Create PHP File to List Employees

1. **Create Employee List Page**
   Create a new file `listEmployees.php` to display the list of employees from the database.

```
php
Copy code
<?php
include('db.php');

// Fetch all employee records
$sql = "SELECT * FROM employees";
$result = $conn->query($sql);
?>

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-
scale=1.0">
    <title>Employee List</title>
```

```
</head>
<body>
    <h2>Employee List</h2>
    <table border="1">
        <tr>
            <th>ID</th>
            <th>Name</th>
            <th>Position</th>
            <th>Salary</th>
        </tr>

        <?php
        if ($result->num_rows > 0) {
            while ($row = $result->fetch_assoc()) {
                echo "<tr>
                        <td>" . $row['id'] . "</td>
                        <td>" . $row['name'] . "</td>
                        <td>" . $row['position'] . "</td>
                        <td>" . $row['salary'] . "</td>
                      </tr>";
            }
        } else {
            echo "<tr><td colspan='4'>No records found</td></tr>";
        }
        ?>
    </table>
</body>
</html>
```

Step 6: Test Your Application

1. **Access the Application**
   Open your browser and go to:
   - **Add Employee Page**: `http://localhost/employeeApp/addEmployee.php`
   - **Employee List Page**: `http://localhost/employeeApp/listEmployees.php`
2. **Add Employee**
   On the `addEmployee.php` page, fill in the employee's name, position, and salary, and submit the form. You should see a success message if the record was added.
3. **View Employee List**
   Go to the `listEmployees.php` page to see the list of all employees from the database.

Step 7: Data Stored Verification

```
1. mysql -u root -p
2. USE employee_db;
3. SELECT * FROM employees;
```