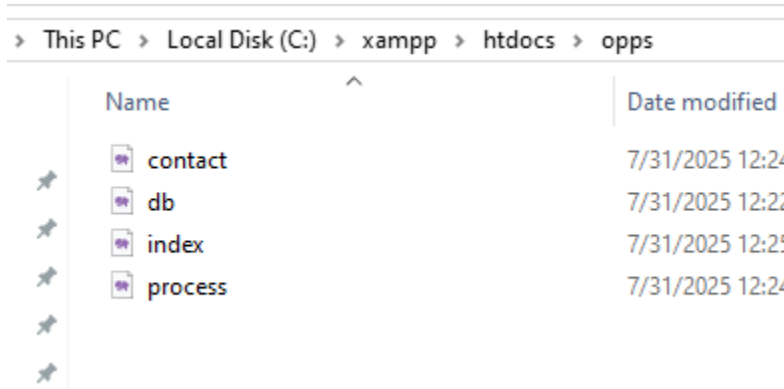


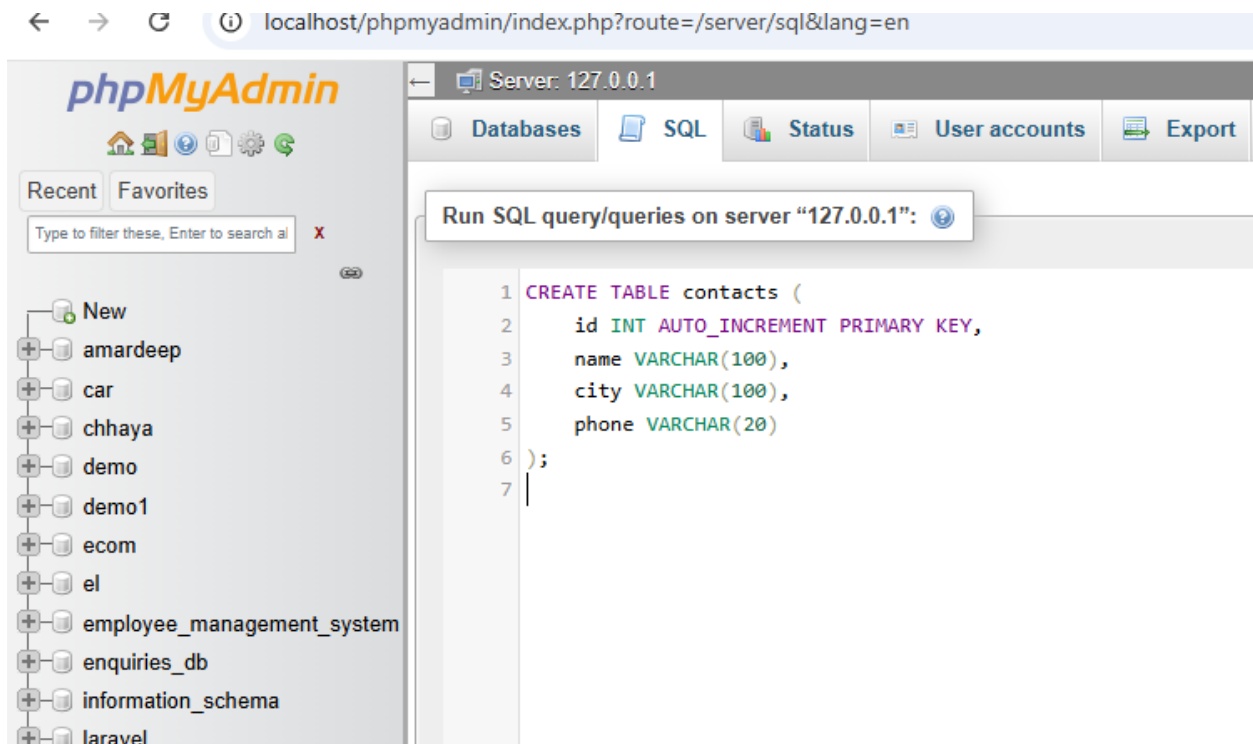
Here's a complete PHP **Object-Oriented Programming (OOP)** example for managing records in a MySQL table with fields: `id`, `name`, `city`, and `phone`.



| Name    | Date modified   |
|---------|-----------------|
| contact | 7/31/2025 12:24 |
| db      | 7/31/2025 12:22 |
| index   | 7/31/2025 12:25 |
| process | 7/31/2025 12:24 |

**Make sure you have the table created:**

```
CREATE TABLE contacts (  
    id INT AUTO_INCREMENT PRIMARY KEY,  
    name VARCHAR(100),  
    city VARCHAR(100),  
    phone VARCHAR(20)  
);
```



localhost/phpmyadmin/index.php?route=/server/sql&lang=en

Server: 127.0.0.1

Databases SQL Status User accounts Export

Run SQL query/queries on server "127.0.0.1":

```
1 CREATE TABLE contacts (  
2     id INT AUTO_INCREMENT PRIMARY KEY,  
3     name VARCHAR(100),  
4     city VARCHAR(100),  
5     phone VARCHAR(20)  
6 );  
7
```

- Place files in a folder like `/crud/` and run via:

## db.php Using mysqli\_connect() :-

```
<?php
class Database {
    private $host = "localhost";
    private $db_name = "your_database_name";
    private $username = "your_username";
    private $password = "your_password";
    public $conn;

    public function connect() {
        $this->conn = mysqli_connect($this->host, $this->username, $this->password, $this->db_name);

        if (!$this->conn) {
            die("Connection failed: " . mysqli_connect_error());
        }

        return $this->conn;
    }
}
?>
```

## contact.php :-

```
<?php
class Contact {
    private $conn;
    private $table = "contacts";

    public function __construct($db) {
        $this->conn = $db;
    }

    public function insert($name, $city, $phone) {
        $name = mysqli_real_escape_string($this->conn, $name);
        $city = mysqli_real_escape_string($this->conn, $city);
        $phone = mysqli_real_escape_string($this->conn, $phone);

        $sql = "INSERT INTO {$this->table} (name, city, phone) VALUES ('$name', '$city', '$phone')";
        return mysqli_query($this->conn, $sql);
    }

    public function update($id, $name, $city, $phone) {
        $id = (int) $id;
        $name = mysqli_real_escape_string($this->conn, $name);
        $city = mysqli_real_escape_string($this->conn, $city);
```

```

        $phone = mysqli_real_escape_string($this->conn, $phone);

        $sql = "UPDATE {$this->table} SET name = '$name', city = '$city',
phone = '$phone' WHERE id = $id";
        return mysqli_query($this->conn, $sql);
    }

    public function delete($id) {
        $id = (int) $id;
        $sql = "DELETE FROM {$this->table} WHERE id = $id";
        return mysqli_query($this->conn, $sql);
    }

    public function getAll() {
        $sql = "SELECT * FROM {$this->table}";
        $result = mysqli_query($this->conn, $sql);
        return mysqli_fetch_all($result, MYSQLI_ASSOC);
    }

    public function getById($id) {
        $id = (int) $id;
        $sql = "SELECT * FROM {$this->table} WHERE id = $id";
        $result = mysqli_query($this->conn, $sql);
        return mysqli_fetch_assoc($result);
    }

    public function search($keyword) {
        $keyword = mysqli_real_escape_string($this->conn, $keyword);
        $sql = "SELECT * FROM {$this->table}
            WHERE name LIKE '%$keyword%'
            OR city LIKE '%$keyword%'
            OR phone LIKE '%$keyword%'";
        $result = mysqli_query($this->conn, $sql);
        return mysqli_fetch_all($result, MYSQLI_ASSOC);
    }
}
?>

```

## index.php – HTML Form + Search + Display Table

This is your main UI page.

```

<?php
require_once 'db.php';
require_once 'contact.php';

$db = new Database();
$conn = $db->connect();
$contact = new Contact($conn);

```

```

// Get all or search
$search = $_GET['search'] ?? '';
$records = $search ? $contact->search($search) : $contact->getAll();

// For edit mode
$editData = null;
if (isset($_GET['edit'])) {
    $editData = $contact->getById($_GET['edit']);
}
?>

<!DOCTYPE html>
<html>
<head>
    <title>Contact Management</title>
    <style>
        input, button { margin: 5px; padding: 5px; }
        table { width: 100%; border-collapse: collapse; margin-top: 20px; }
        th, td { border: 1px solid #ccc; padding: 8px; text-align: left; }
    </style>
</head>
<body>
    <h2><?= $editData ? 'Edit Contact' : 'Add New Contact' ?></h2>
    <form method="post" action="process.php">
        <input type="hidden" name="id" value="<?= $editData['id'] ?? ' ' ?>">
        <input type="text" name="name" placeholder="Name" value="<?=
$editData['name'] ?? ' ' ?>" required>
        <input type="text" name="city" placeholder="City" value="<?=
$editData['city'] ?? ' ' ?>" required>
        <input type="text" name="phone" placeholder="Phone" value="<?=
$editData['phone'] ?? ' ' ?>" required>
        <button type="submit" name="<?= $editData ? 'update' : 'add' ?>">
            <?= $editData ? 'Update' : 'Add' ?>
        </button>
    </form>

    <form method="get" action="">
        <input type="text" name="search" placeholder="Search..." value="<?=
htmlspecialchars($search) ?>">
        <button type="submit">Search</button>
        <a href="index.php">Reset</a>
    </form>

    <h3>Contact List</h3>
    <table>
        <tr>
            <th>ID</th><th>Name</th><th>City</th><th>Phone</th><th>Actions</th>
        </tr>
        <?php if ($records): ?>
        <?php foreach ($records as $rec): ?>
        <tr>
            <td><?= $rec['id'] ?></td>
            <td><?= $rec['name'] ?></td>
            <td><?= $rec['city'] ?></td>
            <td><?= $rec['phone'] ?></td>

```

```

                <td>
                    <a href="?edit=<?= $rec['id'] ?>">Edit</a> |
                    <a href="process.php?delete=<?= $rec['id'] ?>"
onclick="return confirm('Delete this contact?')">Delete</a>
                </td>
            </tr>
        <?php endforeach; ?>
    <?php else: ?>
        <tr><td colspan="5">No contacts found.</td></tr>
    <?php endif; ?>
</table>
</body>
</html>

```

---

## process.php – Handle Add, Update, Delete

Handles form actions and redirects back.

```

<?php
require_once 'db.php';
require_once 'contact.php';

$db = new Database();
$conn = $db->connect();
$contact = new Contact($conn);

// Add contact
if (isset($_POST['add'])) {
    $contact->insert($_POST['name'], $_POST['city'], $_POST['phone']);
}

// Update contact
if (isset($_POST['update'])) {
    $contact->update($_POST['id'], $_POST['name'], $_POST['city'],
$_POST['phone']);
}

// Delete contact
if (isset($_GET['delete'])) {
    $contact->delete($_GET['delete']);
}

header("Location: index.php");
exit;

?>

```

Output:-

<http://localhost/opps/index.php>

localhost/opps/index.php?search=om+sir

**Add New Contact**

Name  City  Phone

[Reset](#)

**Contact List**

| ID | Name   | City    | Phone      | Actions                                       |
|----|--------|---------|------------|---|
| 1  | om sir | andheri | 9322437432 | <a href="#">Edit</a>   <a href="#">Delete</a> |

Here's a **detailed explanation of each part** of your CRUD PHP application using `mysqli_connect()` — including the files `db.php`, `contact.php`, `index.php`, and `process.php`.

## `db.php` — Database Connection (Procedural MySQLi)

```
<?php
class Database {
    private $host = "localhost"; // Host name (usually localhost for local
server)
    private $db_name = "your_database_name"; // Name of your MySQL database
    private $username = "your_username"; // MySQL username
    private $password = "your_password"; // MySQL password
    public $conn; // This will hold the connection link

    public function connect() {
        // Connect to the MySQL database using mysqli_connect (procedural)
        $this->conn = mysqli_connect($this->host, $this->username, $this-
>password, $this->db_name);

        // If connection fails, stop the script and show error
        if (!$this->conn) {
            die("Connection failed: " . mysqli_connect_error());
        }

        return $this->conn; // Return the connection to be used in other
classes
    }
}
?>
```

## ❏ contact.php – Contact Class for CRUD Operations

```
<?php
class Contact {
    private $conn; // DB connection
    private $table = "contacts"; // Table name

    public function __construct($db) {
        $this->conn = $db; // Store the db connection
    }

    ❏ insert()
    public function insert($name, $city, $phone) {
        // Escape inputs to prevent SQL injection
        $name = mysqli_real_escape_string($this->conn, $name);
        $city = mysqli_real_escape_string($this->conn, $city);
        $phone = mysqli_real_escape_string($this->conn, $phone);

        // Insert data using a raw SQL query
        $sql = "INSERT INTO {$this->table} (name, city, phone) VALUES
('$name', '$city', '$phone')";
        return mysqli_query($this->conn, $sql); // Execute the query
    }

    ❏ update()
    public function update($id, $name, $city, $phone) {
        $id = (int) $id; // Convert to integer (type casting)
        $name = mysqli_real_escape_string($this->conn, $name);
        $city = mysqli_real_escape_string($this->conn, $city);
        $phone = mysqli_real_escape_string($this->conn, $phone);

        $sql = "UPDATE {$this->table} SET name = '$name', city = '$city',
phone = '$phone' WHERE id = $id";
        return mysqli_query($this->conn, $sql);
    }

    ❏ delete()
    public function delete($id) {
        $id = (int) $id;
        $sql = "DELETE FROM {$this->table} WHERE id = $id";
        return mysqli_query($this->conn, $sql);
    }

    ❏ getAll()
    public function getAll() {
        $sql = "SELECT * FROM {$this->table}";
        $result = mysqli_query($this->conn, $sql);
        return mysqli_fetch_all($result, MYSQLI_ASSOC); // Return as
associative array
    }

    ❏ getById()
    public function getById($id) {
        $id = (int) $id;
```

```

        $sql = "SELECT * FROM {$this->table} WHERE id = $id";
        $result = mysqli_query($this->conn, $sql);
        return mysqli_fetch_assoc($result);
    }

```

#### [?](#) search()

```

    public function search($keyword) {
        $keyword = mysqli_real_escape_string($this->conn, $keyword);
        $sql = "SELECT * FROM {$this->table}
            WHERE name LIKE '%$keyword%'
            OR city LIKE '%$keyword%'
            OR phone LIKE '%$keyword%'";
        $result = mysqli_query($this->conn, $sql);
        return mysqli_fetch_all($result, MYSQLI_ASSOC);
    }
}
?>

```

---

## index.php – Main UI with Form, Search & Table Display

```

require_once 'db.php';
require_once 'contact.php';

$db = new Database(); // Create a DB object
$conn = $db->connect(); // Connect to the DB
$contact = new Contact($conn); // Create Contact object

// Get search keyword or show all contacts
$search = $_GET['search'] ?? '';
$records = $search ? $contact->search($search) : $contact->getAll();

// If editing, fetch contact info
$editData = null;
if (isset($_GET['edit'])) {
    $editData = $contact->getById($_GET['edit']);
}

```

#### [?](#) HTML Form for Add/Update

- If editData is not null, show **Edit** form, else show **Add** form.
- Form posts to process.php.

#### [?](#) Search Form

- method="get" allows refreshing with ?search=keyword

#### [?](#) Table Display

- Loop through \$records and show each contact.
- Add **Edit** and **Delete** links for each row.

- If no data: show "No contacts found."

---

## □ `process.php` – Handles Form Submissions

```
require_once 'db.php';
require_once 'contact.php';

$db = new Database(); // Create DB connection
$conn = $db->connect();
$contact = new Contact($conn); // Create Contact class object

// Add new contact
if (isset($_POST['add'])) {
    $contact->insert($_POST['name'], $_POST['city'], $_POST['phone']);
}

// Update existing contact
if (isset($_POST['update'])) {
    $contact->update($_POST['id'], $_POST['name'], $_POST['city'],
    $_POST['phone']);
}

// Delete contact
if (isset($_GET['delete'])) {
    $contact->delete($_GET['delete']);
}

// After any operation, go back to index
header("Location: index.php");
exit;
```

---

## □ Output / Result

Once everything is set up:

- Go to `http://localhost/crud/index.php`
- Add, update, delete, or search contacts.
- Your data is stored in a MySQL table `contacts`.

---

## □ Required MySQL Table

```
CREATE TABLE contacts (
    id INT AUTO_INCREMENT PRIMARY KEY,
    name VARCHAR(100) NOT NULL,
    city VARCHAR(100) NOT NULL,
```

```
); phone VARCHAR(20) NOT NULL
```