**CodeIgniter 4**

**Insert data in Database using CodeIgniter 4 :**

**Overview :**

In CodeIgniter we use, insert() function to insert data into database.

Basic syntax:

insert('table\_name', 'array\_of\_object');

Here, we are using Following files for insert data into MySQL:

**View:**

app/Views/

users.php

**Controller:**

app/Controllers/

UsersController.php

**Model:**

app/Models/

UsersModel.php

**Routes:**

app/Config/Routes.php

Otherwise, if you need success page after insert data, Create success page inside app/Views/ and configured it with Controller & Routes.

**Database Table 'users' :**

CREATE TABLE users (

id INT AUTO\_INCREMENT PRIMARY KEY,

username VARCHAR(255) NOT NULL,

email VARCHAR(255) NOT NULL,

password VARCHAR(255) NOT NULL,

created\_at TIMESTAMP DEFAULT CURRENT\_TIMESTAMP,

updated\_at TIMESTAMP DEFAULT CURRENT\_TIMESTAMP ON UPDATE CURRENT\_TIMESTAMP

);

**app/Views/users.php** [ user insert form ] :

<!doctype html>

<html lang="en">

<head>

<!-- Required meta tags -->

<meta charset="utf-8">

<meta name="viewport" content="width=device-width, initial-scale=1">

<!-- Bootstrap CSS -->

<link href="<?= base\_url() ?>public/assets//bootstrap@5.0.2/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-EVSTQN3/azprG1Anm3QDgpJLIm9Nao0Yz1ztcQTwFspd3yD65VohhpuuCOmLASjC" crossorigin="anonymous">

<title>UMS || Home</title>

</head>

<body>

<section>

<div class="container">

<div class="col-md-12">

<h4>USER REGISTRATION</h4>

<form method="post" action="<?= base\_url('/users/insert') ?>"> <!-- Adjust the action URL -->

<div class="mb-3">

<label for="exampleInputEmail1" class="form-label">User Name</label>

<input type="text" class="form-control" name="username" id="username">

</div>

<div class="mb-3">

<label for="exampleInputEmail1" class="form-label">Email </label>

<input type="email" class="form-control" name="email" id="email">

</div>

<div class="mb-3">

<label for="exampleInputPassword1" class="form-label">Password</label>

<input type="password" class="form-control" name="password" id="password">

</div>

<button type="submit" class="btn btn-secondary">Submit</button>

</form>

</div>

</div>

</section>

<!-- Optional JavaScript; choose one of the two! -->

<!-- Option 1: Bootstrap Bundle with Popper -->

<script src="<?= base\_url() ?>public/assets//bootstrap@5.0.2/dist/js/bootstrap.bundle.min.js" integrity="sha384-MrcW6ZMFYlzcLA8Nl+NtUVF0sA7MsXsP1UyJoMp4YLEuNSfAP+JcXn/tWtIaxVXM" crossorigin="anonymous"></script>

<script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>

<!-- Option 2: Separate Popper and Bootstrap JS -->

<!--

<script src="https://cdn.jsdelivr.net/npm/@popperjs/core@2.9.2/dist/umd/popper.min.js" integrity="sha384-IQsoLXl5PILFhosVNubq5LC7Qb9DXgDA9i+tQ8Zj3iwWAwPtgFTxbJ8NT4GN1R8p" crossorigin="anonymous"></script>

<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/js/bootstrap.min.js" integrity="sha384-cVKIPhGWiC2Al4u+LWgxfKTRIcfu0JTxR+EQDz/bgldoEyl4H0zUF0QKbrJ0EcQF" crossorigin="anonymous"></script>

-->

</body>

</html>

**app/Controllers/UsersController.php**

<?php

// app/Controllers/UsersController.php for all User Operations namespace App\Controllers;

use App\Models\UsersModel;

use CodeIgniter\Controller;

class UsersController extends BaseController

{

//Function for view users.php(User Registration Page)

public function users()

{

return view('users');

}

public function insert()

{

$UsersModel = new UsersModel();

// Prepare user data

$data = [

'username' => $this->request->getPost('username'),

'email' => $this->request->getPost('email'),

'password' => $this->request->getPost('password'),

];

// Insert the user data into the database

$UsersModel->insert($data);

// Redirect or display a success message

return redirect()->to('/user/insertSeccess);

}

}

?>

**app/Models/UsersModel.php**

<?php

// app/Models/UsersModel.php for all users Operation

namespace App\Models;

use CodeIgniter\Model;

class UsersModel extends Model

{

protected $table = 'users'; // The name of your database table

protected $primaryKey = 'id'; // The primary key field name

protected $allowedFields = ['username', 'email', 'password']; // Fields that can be inserted or updated

}

?>

**app/Config/Routes.php**

<?php

use CodeIgniter\Router\RouteCollection;

/\* @var RouteCollection $routes \*/

//Route for Home page [ For app/Views/home.php. It is call using Home.php Controller ]

$routes->get('/', 'Home::index');

/\*This Routes only for insert user data\*/

//Route for Users(User Registration Form) page [ For app/Views/user.php. It is called using UsersController.php Controller ]

$routes->get('/users', 'UsersController::users');

//Route for Insert Users(User Registration Form) page [ For app/Views/user.php. It is called using UsersController.php Controller ]

$routes->post('/users/insert', 'UsersController::insert');

//If you have success page, please add Route for this. Example

$routes->post('/users/insertSeccess', 'UsersController::insertSeccess');

?>