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In this tutorial, we are going to learn about creating a simple login form in CodeIgniter. In login form, we made registration module, login module and admin panel using sessions.

We also have a paid ready-to-use advance login & registration module built on CodeIgniter that you can check out at [CodeIgniter Login Registration Form](#).

Creating sessions in CodeIgniter is different from simple PHP. I will give you detailed information about all the method as we move further in this tutorial.

Watch the live demo or download code from the link given below

Username :

Password :

Login

[To Sign Up Click Here](#)

DOWNLOAD SCRIPT

LIVE DEMO

Note : You can also refer the [PHPProjectInstall.pdf](#) file given in the download code folder.

Before starting, let's have a look on what we are going to learn about.

- Create login page, signup page and admin page.
- Setting up validation to all input field.
- Check for existing users in database during signup process.
- Check for username and password in database and show their information stored in database.
- Create session for admin panel, store users input data in session and destroy session(logout).

We are introducing a flow chart which will give you a clear vision about the objectives of this tutorial.



Firstly, set base URL in `config.php` file of CodeIgniter as given below:-

```
$config['base_url'] = 'http://localhost/login/';
```

## Tutorial Scripts in detail

Below are the details of the code used in this tutorial with proper explanation.

### Database Table: user\_login

Now create a database name 'login' with a table 'user\_login' using the code given below

```
create database login;
CREATE TABLE IF NOT EXISTS `user_login` (
  `id` int(11) NOT NULL AUTO_INCREMENT,
  `user_name` varchar(255) NOT NULL,
  `user_email` varchar(255) NOT NULL,
  `user_password` varchar(255) NOT NULL,
  PRIMARY KEY (`id`)
)
```

### Controller: user\_authentication.php

Before start coding, let's load all the libraries required to make and manage login form.

First we need to load session and validation libraries in controller file.

So, let's start coding with controller. Create a file name 'user\_authentication.php' in 'application/controllers' folder of CodeIgniter. Write the code given below in the file.

```
<?php

session_start(); //we need to start session in order to access it through CI

Class User_Authentication extends CI_Controller {

    public function __construct() {
        parent::__construct();

        // Load form helper library
        $this->load->helper('form');

        // Load form validation library
        $this->load->library('form_validation');

        // Load session library
        $this->load->library('session');

        // Load database
        $this->load->model('login_database');
    }

    // Show login page
    public function index() {
        $this->load->view('login_form');
    }

    // Show registration page
    public function user_registration_show() {
        $this->load->view('registration_form');
    }

    // Validate and store registration data in database
    public function new_user_registration() {

        // Check validation for user input in Signup form
        $this->form_validation->set_rules('username', 'Username', 'trim|required|xss_clean');
        $this->form_validation->set_rules('email_value', 'Email', 'trim|required|xss_clean');
        $this->form_validation->set_rules('password', 'Password', 'trim|required|xss_clean');
        if ($this->form_validation->run() == FALSE) {
            $this->load->view('registration_form');
        } else {
            $data = array(
                'user_name' => $this->input->post('username'),
                'user_email' => $this->input->post('email_value'),
                'user_password' => $this->input->post('password')
            );
            $result = $this->login_database->registration_insert($data);
            if ($result == TRUE) {
                $data['message_display'] = 'Registration Successfully !';
                $this->load->view('login_form', $data);
            } else {
                $data['message_display'] = 'Username already exist!';
                $this->load->view('registration_form', $data);
            }
        }

        // Check for user login process
        public function user_login_process() {

            $this->form_validation->set_rules('username', 'Username', 'trim|required|xss_clean');
            $this->form_validation->set_rules('password', 'Password', 'trim|required|xss_clean');

            if ($this->form_validation->run() == FALSE) {
                if(isset($this->session->userdata['logged_in'])){
                    $this->load->view('admin_page');
                }else{
                    $this->load->view('login_form');
                }
            } else {
                $data = array(
                    'username' => $this->input->post('username'),
                    'password' => $this->input->post('password')
                );
                $result = $this->login_database->login($data);
                if ($result == TRUE) {

                    $username = $this->input->post('username');
                    $result = $this->login_database->read_user_information($username);
                    if ($result != false) {
                        $session_data = array(
                            'username' => $result[0]->user_name,
                            'email' => $result[0]->user_email,
                        );
                        // Add user data in session
                        $this->session->set_userdata('logged_in', $session_data);
                        $this->load->view('admin_page');
                    } else {
                        $data = array(
                            'error_message' => 'Invalid Username or Password'
                        );
                        $this->load->view('login_form', $data);
                    }
                }
            }

            // Logout from admin page
            public function logout() {

                // Removing session data
                $sess_array = array(
                    'username' => ''
                );
                $this->session->unset_userdata('logged_in', $sess_array);
                $data['message_display'] = 'Successfully Logout';
                $this->load->view('login_form', $data);
            }

        }
    }
}
```

### Views: login\_form.php

This will show login form on the view page.

```
<html>
<?php
if (isset($this->session->userdata['logged_in'])) {

    header("location: http://localhost/login/index.php/user_authentication/user_login_process");
}

<head>
<title>Login Form</title>
<link rel="stylesheet" type="text/css" href="<?php echo base_url(); ?>css/style.css">
<link href="http://fonts.googleapis.com/css?family=Source+Sans+Pro|Open+Sans+Condensed:300|Raleway" r
</head>
<body>
<?php
if (isset($logout_message)) {
    echo "<div class='message'>";
    echo $logout_message;
    echo "</div>";
}

<?php
if (isset($message_display)) {
    echo "<div class='message'>";
    echo $message_display;
    echo "</div>";
}

<div id="main">
<div id="login">
<h2>Login Form</h2>
<hr>
<?php echo form_open("user_authentication/user_login_process"); ?>
<?php
echo "<div class='error_msg'>";
if (isset($error_message)) {
    echo $error_message;
}
echo validation_errors();
echo "</div>";
?>
<label>UserName :</label>
<input type="text" name="username" id="name" placeholder="username"/><br /><br />
<label>Password :</label>
<input type="password" name="password" id="password" placeholder="*****"/><br /><br />
<input type="submit" value=" Login " name="submit"/><br />
<a href="<?php echo base_url() ?>index.php/user_authentication/user_registration_show">To Signup Click
<?php echo form_close(); ?>
</div>
</div>
</body>
</html>
```

### Views: registration\_form.php

This file will load to show signup form.

```
<html>
<?php
if (isset($this->session->userdata['logged_in'])) {

    header("location: http://localhost/login/index.php/user_authentication/user_login_process");
}

<head>
<title>Registration Form</title>
<link rel="stylesheet" type="text/css" href="<?php echo base_url(); ?>css/style.css">
<link href="http://fonts.googleapis.com/css?family=Source+Sans+Pro|Open+Sans+Condensed:300|Raleway" r
</head>
<body>
<div id="main">
<div id="login">
<h2>Registration Form</h2>
<hr>
<?php
echo "<div class='error_msg'>";
echo validation_errors();
echo "</div>";
?>
echo form_open("user_authentication/new_user_registration");

echo form_label('Create Username : ');
echo "<br/>";
echo form_input('username');
echo "<div class='error_msg'>";
if (isset($message_display)) {
    echo $message_display;
}
echo "</div>";
echo "<br/>";
echo form_label('Email : ');
echo "<br/>";
$data = array(
    'data' => 'email',
    'name' => 'email_value'
);
echo form_input($data);
echo "<br/>";
echo form_label('Password : ');
echo "<br/>";
echo form_password('password');
echo "<br/>";
echo form_submit('submit', 'Sign Up');
echo form_close();
?>
<a href="<?php echo base_url() ?>?>For Login Click Here<a>
</div>
</body>
</html>
```

### Views: admin\_page.php

This file load in the admin part, once user is successfully login to admin page.

```
<html>
<?php
if (isset($this->session->userdata['logged_in'])) {
    $username = ($this->session->userdata['logged_in'])['username'];
    $email = ($this->session->userdata['logged_in'])['email'];
} else {
    header("location: login");
}

<head>
<title>Admin Page</title>
<link rel="stylesheet" type="text/css" href="<?php echo base_url(); ?>css/style.css">
<link href="http://fonts.googleapis.com/css?family=Source+Sans+Pro|Open+Sans+Condensed:300|Raleway" r
</head>
<body>
<div id="profile">
<?php
echo "Hello <b id='welcome'><i> . $username . "</i> </b>";
echo "<br/>";
echo "<br/>";
echo "Welcome to Admin Page";
echo "<br/>";
echo "<br/>";
echo "Your Username is " . $username;
echo "<br/>";
echo "Your Email is " . $email;
echo "<br/>";
?>
<b id="logout"><a href="logout">logout</a></b>
```