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Chapter 5. PHP Framework Codelgniter

Codelgniter-Overview, Installing Codelgniter

CodeIgniter is a powerful PHP framework with a very small footprint, built for developers who need a simple and elegant toolkit to create full-featured web applications. CodeIgniter was created by EllisLab, and is now a project of the British Columbia Institute of Technology.

Codelgniter Features:

• Free to use

It is licensed under MIT license, so it is free to use.

• Follows MVC Pattern

It uses Model-View-Controller which basically separates logic and presentation parts. Request comes to controller, database action is performed through model and output is displayed through views.

But in normal PHP scripting, every page represents MVC which increases complexity.

• Light weight

It is extremely light-weighted. CodeIgniter core system requires very small library, other libraries may be added upon dynamic request based upon your needs. That is why it is quite fast and light weighted.

• Generate SEO friendly URLs

URLs generated by CodeIgniter are search-engine friendly and clean. It uses a segment based approach rather than standard query based approach.

Codelgniter Installation

Follow given steps to install CodeIgniter:

1) Download Codelgniter from its official website.

Download current version of Codelgniter from its official website

https://www.codeigniter.com

2) Unzip Codelgniter package.

Downloaded Codelgniter will be in zip format. Copy it and place it in your htdocs folder. Unzip and rename it. We are naming it as **Codelgniter.**

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3) Codelgniter user guide



The page you are looking at is being generated dynamically by Codelgnite

If you would like to edit this page you'll find it located at:

application/views/welcome_message.php

The corresponding controller for this page is found at:

application/controllers/Welcome.php

If you are exploring CodeIgniter for the very first time, you should start by r

On browser type **localhost/Codelgniter/** (after localhost type name of your unzipped folder). If the above snapshot page appears then it means your file is successfully installed.

4) Set the base URL in application/config/config.php file with any text editor.

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models	25	*/	
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htaccess	28	/*	
index.html	29		
▶ □ system	30	Index File	
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5) You need to establish the connectivity to your database. Go to the path application/config/database.php file.

File Edit Selection Find View	Goto Tools Project Preferences Help
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CodeIgniter	database.php ×
▼ ▷ application	67 The \$active group variable lets you choose
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🔻 🗁 config	69
🕒 autoload.php	70 The \$query builder variables lets you deter
🕒 config.php	71 the query builder class.
🕒 constants.php	72 */
🕒 database.php	73 <pre>\$active group = 'default':</pre>
🕒 doctypes.php	74 \$query builder = TRUE:
🕒 foreign_chars.php	75
🕒 hooks.php	76 \$db['default'] = array()
🗈 index.html	77 $dsn' = 2$
memcached.php	78 'hostname' => 'localhost'
C migration.php	79 'username' => 'root'
L ^a mimes.php	100000
C profiler.php	1 1 1 1 1 1 1 1 1 1
G routes.php	82 'dbdriver' -> 'mysali'
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user_agents.php	84 'nconnect' -> EALSE
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▶ C models	90 swap_pre =/ ,
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views	92 compress => FALSE,
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Look at the above snapshot, fill the details about your database like hostname, username, password and database name.

codeigniter mvc architecture

CodeIgniter is based on the **Model-View-Controller (MVC) development pattern**. MVC is a software approach that separates application logic from presentation. In practice, it permits your web pages to contain minimal scripting since the presentation is separate from the PHP scripting.



- The **Model** represents your data structures. Typically, your model classes will contain functions that help you retrieve, insert and update information in your database.
- The **View** is information that is being presented to a user. A View will normally be a web page, but in CodeIgniter, a view can also be a page fragment like a header or footer. It can also be an RSS page, or any other type of "page".
- The **Controller** serves as an intermediary between the Model, the View, and any other resources needed to process the HTTP request and generate a web page.

Basic concept of codelgniter Libraries

The essential part of a CodeIgniter framework is its libraries. It provides a rich set of libraries, which indirectly increase the speed of developing an application. The system library is located at system/libraries. All we need to do is to load the library that we want to use. The library can be loaded as shown below –

\$this->load->library('class name');

Where **class name** is the name of the library that we want to load. If we want to load multiple libraries, then we can simply pass an array as argument to **library()** function as shown below \$this->load->library(array('email', 'table'));

Library Classes

The library classes are located in **system/libraries**. Each class has various functions to simplify the developing work. Following table shows the names of the library class and its description.

Given below are the most commonly used Library Classes.

Creating Libraries

CodeIgniter has rich set of libraries, which you can find in **system/libraries** folder but CodeIgniter is not just limited to system libraries, you can create your own libraries too, which can be stored in **application/libraries** folder. You can create libraries in three ways.

- Create new library
- Extend the native library
- Replace the native library

Create New Library

While creating new library one should keep in mind, the following things -

- The name of the file must start with a capital letter e.g. Mylibrary.php
- The class name must start with a capital letter e.g. class Mylibrary
- The name of the class and name of the file must match.

Mylibrary.php

```
<?php if ( ! defined('BASEPATH')) exit('No direct script access allowed');
  class Mylibrary {
    public function some_function() {
    }
  }
/* End of file Mylibrary.php */
Loading the Custom Library</pre>
```

The above library can be loaded by simply executing the following line in your controller.

\$this->load->library('mylibrary');

mylibrary is the name of your library and you can write it in lowercase as well as uppercase letters. Use the name of the library without ".php" extension. After loading the library, you can also call the function of that class as shown below.

```
$this->mylibrary->some_function();
```

Extend the Native Library

Sometimes, you may need to add your own functionality to the library provided by CodeIgniter. CodeIgniter provides facility by which you can extend the native library and add your own functions. To achieve this, you must extend the class of native library class. For example if you want to extend the Email library then it can be done as shown below –

Class MY_Email extends CI_Email {
}

Here, in the above example, MY_Email class is extending the native library's email class CI_Email. This library can be loaded by the standard way of loading email library. Save the above code in file My_Email.php

Replace the Native Library

In some situations, you do not want to use the native library the way it works and want to replace it with your own way. This can be done by replacing the native library. To achieve this, you just need to give the same class name as it is named in native library. For example, if you want to replace the **Email class**, then use the code as shown below. Save your file name with **Email.php** and give a class name to **CI_Email**. **Email.php**

```
Class CI_Email {
```

Helper Function:

Helpers are the reusable code in codeignitor like libraries. The only difference is that libraries are collection of classes whereas helper is defined as individual independent set of functions. Helper functions need to be loaded before using it. We can find all the helpers in codeignitor documentation Codeignitor Helpers and that can be used depends on kind of requirement.

Create a controller **users.php** and then we can use below code to use helper.

<?php

}

?>

```
defined('BASEPATH') OR exit('No direct script access allowed');
```

```
class Users extends CI_Controller {
```

```
public function index() {
```

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

If we need to load multiple helpers, we can create an array and then we can define all the helper's name in that array.

\$this->load->helper(array('form', 'email', 'url'));

Custom Helpers: Codeignitor has already a lot of built-in helpers but if we need to create a function which is not in the helper then we can create our own custom helper and use it in the same way like inbuilt helpers. Inbuilt helpers are available in system folder but custom helper needs to be created in application/helpers folder. Create a file **abc_helper.php** in application/helpers folder. Below is the example of creating functionality in our custom helper.

```
<?php
function test() {
echo "Custom helper for codeignitor";
}
?>
```

Custom helpers can be used just like inbuilt helpers in the controller. So in our **users.php** controller use the code below to check this. **Controller: users.php**

<?php

defined('BASEPATH') OR exit('No direct script access allowed');

class Users extends CI_Controller {

public function index() {

// Load custom helper

```
$this->load->helper('abc');
```

test();

}

}

| Output: | |
|-------------------------------|--|
| Custom helper for codeignitor | |

?

Working with Database:

Like any other framework, we need to interact with the database very often and CodeIgniter makes this job easy for us. It provides rich set of functionalities to interact with database.

Connecting to a Database

We can connect to database in the following two way -

• Automatic Connecting – Automatic connection can be done by using the file application/config/autoload.php. Automatic connection will load the database for each and every page. We just need to add the database library as shown below –

\$autoload['libraries'] = array('database');

• **Manual Connecting** – If you want database connectivity for only some of the pages, then we can go for manual connecting. We can connect to database manually by adding the following line in any class.

\$this->load->database();

Here, we are not passing any argument because everything is set in the database config file application/config/database.php

Inserting a Record

To insert a record in the database, the insert() function is used as shown in the following table

| Syntax | insert([<i>\$table</i> = "[, <i>\$set</i> = NULL[, <i>\$escape</i> = NULL]]]) |
|-------------|--|
| Parameters | \$table (<i>string</i>) - Table name \$set (<i>array</i>) - An associative array of field/value pairs |
| Returns | TRUE on success, FALSE on failure |
| Return Type | Bool |

The following example shows how to insert a record in **stud** table. The \$data is an array in which we have set the data and to insert this data to the table **stud**, we just need to pass this array to the insert function in the 2nd argument.

```
$data = array(
    'roll_no' => '1',
    'name' => 'Virat'
);
$this->db->insert("stud", $data);
```

Updating a Record

To update a record in the database, the **update()** function is used along with **set()** and **where()** functions as shown in the tables below. The **set()** function will set the data to be updated.

| Syntax | <pre>set(\$key[, \$value = "[, \$escape = NULL]])</pre> |
|----------------------------|---|
| Parameters | \$key (mixed) - Field name, or an array of field/value pairs \$value (string) - Field value, if \$key is a single field \$escape (bool) - Whether to escape values and identifiers |
| Returns | CI_DB_query_builder instance (method chaining) |
| Return Type | CI_DB_query_builder |
| The where() function | on will decide which record to update. |
| Syntax | where(<i>\$key</i> [, <i>\$value</i> = <i>NULL</i> [, <i>\$escape</i> = <i>NULL</i>]]) |
| Parameters | Skey (<i>mixed</i>) – Name of field to compare, or associative array Svalue (<i>mixed</i>) – If a single key, compared to this value Sescape (<i>bool</i>) – Whether to escape values and identifiers |
| Returns | DB_query_builder instance |
| Return Type | Object |
| Finally, the update | () function will update data in the database. |
| Syntax | update([<i>\$table</i> = "[, <i>\$set</i> = NULL[, <i>\$where</i> = NULL[, <i>\$limit</i> = NULL]]]]) |
| Parameters | Stable (<i>string</i>) – Table name Sset (<i>array</i>) – An associative array of field/value pairs Swhere (<i>string</i>) – The WHERE clause Slimit (<i>int</i>) – The LIMIT clause |

Returns TRUE on success, FALSE on failure

Return Type Bool

```
$data = array(
    'roll_no' => '1',
    'name' => 'Virat'
);
$this->db->set($data);
$this->db->where("roll_no", '1');
$this->db->update("stud", $data);
```

Deleting a Record

To delete a record in the database, the delete() function is used as shown in the following table -

| Syntax | <pre>delete([\$table = "[, \$where = "[, \$limit = NULL[, \$reset_data = TRUE]]]])</pre> |
|-------------|---|
| Parameters | Stable (mixed) - The table(s) to delete from; string or array Swhere (string) - The WHERE clause Slimit (int) - The LIMIT clause Sreset_data (bool) - TRUE to reset the query "write" clause |
| Returns | CI_DB_query_builder instance (method chaining) or FALSE on failure |
| Return Type | Mixed |

Use the following code to to delete a record in the **stud** table. The first argument indicates the name of the table to delete record and the second argument decides which record to delete.

\$this->db->delete("stud", "roll_no = 1");

Selecting a Record

To select a record in the database, the get function is used, as shown in the following table -

| Syntax | get([\$table = "[, \$limit = NULL[, \$offset = NULL]]]) |
|------------|---|
| Parameters | Stable (<i>string</i>) - The table to query array Slimit (<i>int</i>) - The LIMIT clause Soffset (<i>int</i>) - The OFFSET clause |

Returns CI_DB_result instance (method chaining)

Return Type CI_DB_result

Use the following code to get all the records from the database. The first statement fetches all the records from "stud" table and returns the object, which will be stored in \$query object. The second statement calls the **result()** function with \$query object to get all the records as array.

\$query = \$this->db->get("stud"); \$data['records'] = \$query->result();

Closing a Connection

Database connection can be closed manually, by executing the following code -

```
$this->db->close();
```

Example

Create a controller class called **Stud_controller.php** and save it at **application/controller/Stud_controller.php**

Here is a complete example, wherein all of the above-mentioned operations are performed. Before executing the following example, create a database and table as instructed at the starting of this chapter and make necessary changes in the database config file stored at **application/config/database.php**

```
<?php
 class Stud controller extends CI Controller {
   function construct() {
     parent:: construct();
     $this->load->helper('url');
     $this->load->database();
   }
   public function index() {
     $query = $this->db->get("stud");
     $data['records'] = $query->result();
     $this->load->helper('url');
     $this->load->view('Stud view',$data);
   }
   public function add student view() {
     $this->load->helper('form');
     $this->load->view('Stud add');
   }
   public function add student() {
     $this->load->model('Stud Model');
```

```
data = array(
       'roll no' => $this->input->post('roll no'),
       'name' => $this->input->post('name')
     );
     $this->Stud Model->insert($data);
     $query = $this->db->get("stud");
     $data['records'] = $query->result();
     $this->load->view('Stud view',$data);
   }
   public function update student view() {
     $this->load->helper('form');
     $roll no = $this->uri->segment('3');
     $query = $this->db->get where("stud",array("roll no"=>$roll no));
     $data['records'] = $query->result();
     $data['old roll no'] = $roll no;
     $this->load->view('Stud edit',$data);
    }
   public function update student(){
     $this->load->model('Stud Model');
     data = array(
       'roll no' => $this->input->post('roll no'),
       'name' => $this->input->post('name')
     );
     $old roll no = $this->input->post('old roll no');
     $this->Stud Model->update($data,$old roll no);
     $query = $this->db->get("stud");
     $data['records'] = $query->result();
     $this->load->view('Stud view',$data);
   }
   public function delete student() {
     $this->load->model('Stud Model');
     $roll no = $this->uri->segment('3');
     $this->Stud Model->delete($roll no);
     $query = $this->db->get("stud");
     $data['records'] = $query->result();
     $this->load->view('Stud view',$data);
    }
?>
Create a model class called Stud Model.php and save it
```

Create a model class called **Stud_Model.php** and save 1 in **application/models/Stud_Model.php**

<?php

```
class Stud Model extends CI Model {
   function construct() {
     parent:: construct();
   }
   public function insert($data) {
     if ($this->db->insert("stud", $data)) {
       return true;
     }
   }
   public function delete($roll no) {
     if ($this->db->delete("stud", "roll no = ".$roll no)) {
       return true;
     }
   }
   public function update($data,$old roll no) {
     $this->db->set($data);
     $this->db->where("roll no", $old roll no);
     $this->db->update("stud", $data);
   }
 }
?>
```

Create a view file called Stud_add.php and save it in application/views/Stud_add.php

```
<!DOCTYPE html>
<html lang = "en">
 <head>
   <meta charset = "utf-8">
   <title>Students Example</title>
 </head>
 <body>
     <?php
       echo form open('Stud controller/add student');
       echo form label('Roll No.');
       echo form input(array('id'=>'roll no','name'=>'roll no'));
       echo "<br/>";
       echo form label('Name');
       echo form input(array('id'=>'name','name'=>'name'));
       echo "<br/>";
       echo form submit(array('id'=>'submit','value'=>'Add'));
       echo form close();
     ?>
 </body>
</html>
```

Create a view file called Stud_edit.php and save it in application/views/Stud_edit.php

```
<!DOCTYPE html>
<html lang = "en">
  <head>
    <meta charset = "utf-8">
    <title>Students Example</title>
  </head>
  <body>
    <form method = "" action = "">
      <?php
        echo form open('Stud controller/update student');
        echo form hidden('old roll no',$old roll no);
        echo form label('Roll No.');
        echo form input(array('id'⇒'roll no',
          'name'\Rightarrow'roll no','value'\Rightarrow$records[0]\rightarrowroll no));
        echo "
        ";
        echo form label('Name');
        echo form input(array('id'\Rightarrow'name', 'name', 'name')
          'value' \Rightarrow $records [0] \rightarrow name));
        echo "
        ";
        echo form submit(array('id'\Rightarrow'sub mit','value'\Rightarrow'Edit'));
        echo form close();
      ?>
    </form>
  </body>
```

```
</html>
```

Create a view file called Stud_view.php and save it in application/views/Stud_view.php

```
<!DOCTYPE html>
<html lang = "en">
<head>
<meta charset = "utf-8">
<title>Students Example</title>
</head>
<body>
<a href = "<?php echo base_url(); ?>
index.php/stud/add_view">Add</a>
<?php
$i = 1;
```

```
echo "";
     echo "Sr#";
     echo "Roll No.";
     echo "Name";
     echo "Edit";
     echo "Delete";
     echo "";
     foreach($records as $r) {
      echo "";
      echo "".$i++."";
      echo "".$r->roll no."";
      echo "".$r->name."";
      echo "<a href = "".base url()."index.php/stud/edit/"
        .$r->roll no."'>Edit</a>";
      echo "<a href = "".base url()."index.php/stud/delete/"
        .$r->roll no."'>Delete</a>":
      echo "";
     }
    ?>
  </body>
</html>
```

Make the following change in the route file at **application/config/routes.php** and add the following line at the end of file.

\$route['stud'] = "Stud_controller"; \$route['stud/add'] = 'Stud_controller/add_student'; \$route['stud/add_view'] = 'Stud_controller/add_student_view'; \$route['stud/edit/(\d+)'] = 'Stud_controller/update_student_view/\$1'; \$route['stud/delete/(\d+)'] = 'Stud_controller/delete_student/\$1';

<u>Cookies management in CodeIgniter</u>

Cookie is a small piece of data sent from web server to store on client's computer. CodeIgniter has one helper called "Cookie Helper" for cookie management.

Syntax	<pre>set_cookie(\$name[, \$value = "[, \$expire = "[, \$domain = "[, \$path = '/"[, \$prefix = "[, \$secure = FALSE[, \$httponly = FALSE]]]]]]])</pre>
Parameters	 \$name (mixed) - Cookie name or associative array of all of the parameters available to this function \$value (string) - Cookie value

	 Sexpire (<i>int</i>) – Number of seconds until expiration Sdomain (<i>string</i>) – Cookie domain (usually: .yourdomain.com) Spath (<i>string</i>) – Cookie path Sprefix (<i>string</i>) – Cookie name prefix Ssecure (<i>bool</i>) – Whether to only send the cookie through HTTPS Shttponly (<i>bool</i>) – Whether to hide the cookie from JavaScript
Return Type	Void
In the set_cookie() array can be passed	function, we can pass all the values using two ways. In the first way, only and in the second way, individual parameters can also be passed.
Syntax	get_cookie(<i>\$index</i> [, <i>\$xss_clean</i> = <i>NULL</i>]])
Parameters	 \$index (string) - Cookie name \$xss_clean (bool) - Whether to apply XSS filtering to the returned value
Return	The cookie value or NULL if not found
Return Type	Mixed
The get_cookie() fu function.	unction is used to get the cookie that has been set using the set_cookie()
Syntax	delete_cookie(\$name[, \$domain = "[, \$path = '/"[, \$prefix = '']]]])
Parameters	 \$name (string) - Cookie name \$domain (string) - Cookie domain (usually: .yourdomain.com) \$path (string) - Cookie path \$prefix (string) - Cookie name prefix
Return Type	void
The delete_cookie() function is used to delete the cookie().
Example Create a controller of at application/cont	called Cookie_controller.php and save it roller/Cookie controller.php

```
<?php
class Cookie_controller extends CI_Controller {
   function __construct() {
      parent:: construct();
   }
}</pre>
```

```
$this->load->helper(array('cookie', 'url'));
}
public function index() {
   set_cookie('cookie_name','cookie_value','3600');
   $this->load->view('Cookie_view');
}
public function display_cookie() {
   echo get_cookie('cookie_name');
   $this->load->view('Cookie_view');
}
public function deletecookie() {
   delete_cookie('cookie_name');
   redirect('cookie/display');
}
```

Create a view file called **Cookie_view.php** and save it at **application/views/Cookie_view.php**

```
<!DOCTYPE html>
<html lang = "en">
<head>
<meta charset = "utf-8">
<title>CodeIgniter View Example</title>
</head>
<body>
<a href = 'display'>Click Here</a> to view the cookie.<br>
<a href = 'delete'>Click Here</a> to delete the cookie.
</body>
</html>
```

Change the routes.php file in application/config/routes.php to add route for the above controller and add the following line at the end of the file.

\$route['cookie'] = "Cookie_controller"; \$route['cookie/display'] = "Cookie_controller/display_cookie"; \$route['cookie/delete'] = "Cookie_controller/deletecookie";

After that, you can execute the following URL in the browser to execute the example.

http://yoursite.com/index.php/cookie

It will produce an output as shown in the following screenshot.

