

# LEARNING codeigniter

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#codeigniter

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# **About**

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# **Chapter 1: Getting started with codeigniter**

### Remarks

CodeIgniter is a MVC framework written in, and for, PHP.

It is lightweight compared to other MVC frameworks out there, at the cost of having less functionality, e.g. there is no built in authentication system which might be a part of other frameworks.

Codelgniter is a good choice of frameworks for those who are starting out with MVC as it doesn't force any particular standards for naming and structure of code; but it is also suitable for larger projects where a large range of features contained in other frameworks might not be needed.

### **Versions**

Version	Release Date
Version Beta 1.0	2006-02-28
Version 2.0.0	2011-01-28
Version 2.2.0	2014-06-02
Version 3.0.0	2015-03-30
Version 3.1.3	2017-01-09
Version is 3.1.4	2017-03-20
Version is 3.1.5	2017-06-19

# **Examples**

**Installation and Setup** 

# **Windows Environment**

- 1. Install XAMPP or WAMP
- 2. Download and Unzip the package from Codeigniter.com
- 3. Extract all the document in the server space (htdocs or www directory)

# **Mac Environment**

- 1. Install MAMP
- 2. Download and Unzip the package from Codeigniter.com
- 3. Extract all the document in the server space (htdocs)

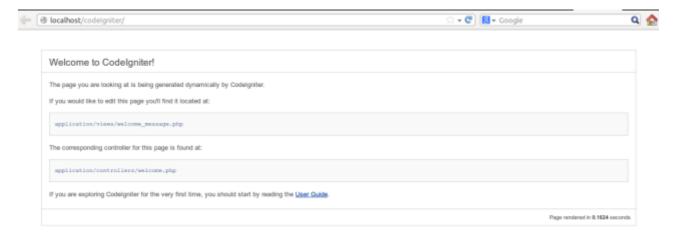
# **Linux Environment**

- 1. Download and Unzip the package from Codeigniter.com
- 2. Place the extracted folder in /var/www (in WAMP) or xampp/htdocs (XAMPP)

# **GitHub**

git clone https://github.com/bcit-ci/CodeIgniter.git

If you follow the system correctly, you will get the below screen.



# **Base URL**

- $1. \; Go \; to \; {\tt application/config/config.php}$
- 2. Define base URL as \$config['base\_url'] = 'http://localhost/path/to/folder';

# Remove index.php from URL

**Apache Configuration** 

- 1. go to root
- 2. create htaccess file
- 3. Add below code inside it

```
RewriteEngine on
RewriteCond $1 !^(index\.php|assets|image|resources|robots\.txt)
RewriteCond %{REQUEST_FILENAME} !-f
RewriteCond %{REQUEST_FILENAME} !-d
RewriteRule ^(.*)$ index.php/$1 [L,QSA]
```

Note: .htaccess code vary depending on hosting server. In some hosting server (e.g.: Godaddy) need to use an extra ? in the last line of above code. The following line will be replaced with last line in applicable case:

```
RewriteRule ^(.*)$ index.php?/$1 [L,QSA]
```

### **Nginx Configuration**

- 1. Open nginx config file (by default: /etc/nginx/sites-available/default)
- 2. Add below code inside it

```
server {
  server_name domain.tld;
  root /path-to-codeigniter-folder; //you codeigniter path
  index index.html index.php;
  # set expiration of assets to MAX for caching
  location \sim* \.(ico|css|js|gif|jpe?g|png)(\?[0-9]+)?$ {
       expires max;
       log_not_found off;
   }
  location / {
       # Check if a file or directory index file exists, else route it to index.php.
       try_files $uri $uri/ /index.php;
  location ~* \.php$ {
       fastcgi_pass 127.0.0.1:9000;
       include fastcgi.conf;
   }
```

# **Database Configuration**

- 1. Go to application/config/database.php
- 2. Set the following configuration variables.

- Host
- Username
- Password
- Database Name
- Port

### **Set Default Controller**

- 1. Go to application/config/routes.php
- 2. set the following configuration variable value with your controller name.
  - · default\_controller

### **AutoLoad Library And Helper**

- 1. Go to application/config/autoload.php
- 2. set Auto load value like \$autoload['libraries'] = array('database', 'session');
- 3. set Helper value like \$autoload['helper'] = array('url', 'file', 'form', 'html', 'text');

### Run multiple applications on one CI system

Codeigniter may be configured to run more than one project without duplicating CI core files.

It's possible by splitting CI Application side. For example let's take project of website, which contains front-end and back-end Content Management System (CMS) applications. In this case CI folder structure will be like:

### Folder structure:

```
— Codeigniter

| — applications
| — front-end
| | — views
| | — models
| — controllers
| — config
| — ...
| — back-end
| — views
| — models
| — controllers
| — config
| — config
| — core
| — database
| — helpers
| — helpers
```

```
| |-- index.php
|-- backend.php
```

In applications folder we created two folders: front-end and back-end and copied all default content of applications under these two folders.

Also we duplicated index.php file under root folder as backend.php

Next is to configure c1 to work with this two instances of application.

# **Codeigniter Configuration:**

Open index.php and backend.php files and update application\_folder confg:

```
//index.php
$application_folder = 'applications/front-end';

//backend.php
$application_folder = 'applications/back-end';
```

After configuration above, CI is ready to run two applications under one CI system:

Request on example.com/Codeigniter/index.php will open front-end app

Request on example.com/Codeigniter/backend.php will open back-end app

### Increase security by hiding the location of your Codelgniter files

Within the CodeIgniter, there are two main directories to worry about: **system** and **application**. The system folder contains the core guts of CodeIgniter. The application folder will contain all of the code specific to your application, including models, controllers, views and other relevant libraries.

Per the Codelgniter installation instructions, in the best interest of securing your application, both the system and application folder should be placed above web root so that they are not directly accessible via a browser. By default, .htaccess files are included in each folder to help prevent direct access, but it is best to remove them from public access entirely in case the web server configuration changes or doesn't abide by the .htaccess.

After moving the system and application folders, open the main <code>index.php</code> file and set the <code>\$system\_path</code>, <code>\$application\_folder</code> variables, preferably with a full path, e.g. '/www/MyUser/system'. However, relative paths should work.

### For Linux/Apache:

```
$application_folder = './application';
$system_path = './system';
```

### For Windows/IIS:

```
$application_folder = '../application/';
$system_path = '../system/';
```

### Read Getting started with codeigniter online:

http://www.riptutorial.com/codeigniter/topic/929/getting-started-with-codeigniter

# **Chapter 2: Array Helper**

### Introduction

The Array Helper file contains functions that assist in working with arrays.

### **Examples**

### **Loading this Helper**

This helper is loaded using the following code:

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

The following functions are available:

### element()

Lets you fetch an item from an array. The function tests whether the array index is set and whether it has a value. If a value exists it is returned. If a value does not exist it returns FALSE, or whatever you've specified as the default value via the third parameter. Example:

```
$array = array('color' => 'red', 'shape' => 'round', 'size' => '');

// returns "red"
echo element('color', $array);

// returns NULL
echo element('size', $array, NULL);
```

### random\_element()

Takes an array as input and returns a random element from it. Usage example:

### elements()

Lets you fetch a number of items from an array. The function tests whether each of the array

indices is set. If an index does not exist it is set to FALSE, or whatever you've specified as the default value via the third parameter. Example:

```
$array = array(
    'color' => 'red',
    'shape' => 'round',
    'radius' => '10',
    'diameter' => '20'
);

$my_shape = elements(array('color', 'shape', 'height'), $array);
```

The above will return the following array:

```
array(
    'color' => 'red',
    'shape' => 'round',
    'height' => FALSE
);
```

You can set the third parameter to any default value you like:

```
$my_shape = elements(array('color', 'shape', 'height'), $array, NULL);
```

The above will return the following array:

```
array(
    'color' => 'red',
    'shape' => 'round',
    'height' => NULL
);
```

This is useful when sending the \$\_POST array to one of your Models. This prevents users from sending additional POST data to be entered into your tables:

```
$this->load->model('post_model');
$this->post_model->update(elements(array('id', 'title', 'content'), $_POST));
```

This ensures that only the id, title and content fields are sent to be updated.

Read Array Helper online: http://www.riptutorial.com/codeigniter/topic/8068/array-helper

# **Chapter 3: Authentication**

### **Examples**

### **Loading Your Auth library for Every Controller**

go to codeigniter/application/libraries/ create or replace your library files here.

go to codeigniter/application/core/ create a new php file named like MY\_Controller.php

inside MY\_Controller.php

```
<?php
class MY_Controller extends CI_Controller{
   public function __construct() {
      parent::__construct();
      $this->load->library('AuthLib'); // AuthLib is your library name
   }
}
```

And then on every controller file you need to extends MY\_Controller.

Example of a controller; go to codeigniter/application/controllers and create a php file

Read Authentication online: http://www.riptutorial.com/codeigniter/topic/7722/authentication

# **Chapter 4: Base url in Codeigniter**

### **Examples**

### Smart way to setting up the base\_url

The following lines of code is more smart way to setting up the base\_url in codeigniter:

```
$config['base_url'] = ((isset($_SERVER['HTTPS']) && $_SERVER['HTTPS'] == "on") ? "https" :
"http");
$config['base_url'] .= "://".$_SERVER['HTTP_HOST'];
$config['base_url'] .=
str_replace(basename($_SERVER['SCRIPT_NAME']),"",$_SERVER['SCRIPT_NAME']);
```

### Recommended is

```
$config['base_url'] = 'https://stackoverflow.com/';
```

Because everyone knows the hosting space. So if you set like this you *can prevent Injection to your site/host*.

### Setting your base url in Codeigniter

You will need to set your base URL in application/config/config.php

If it is not set, then CodeIgniter will try to guess the protocol and path to your installation, but due to the security concerns the hostname will be set to <code>\$\_SERVER['SERVER\_ADDR']</code> if available, or localhost otherwise. The auto-detection mechanism exists only for convenience during development and MUST NOT be used in production!

```
$config['base_url'] = '';
```

### It should be filed like

```
$config['base_url'] = 'http://localhost/projectname/';
$config['base_url'] = 'http://www.example.com/';
```

Always good to use / at end of base\_url

When you do not set your base URL you might run into some errors where you can not load your CSS, images, and other assets items. And also you might have trouble submitting forms as some users have come across.

### **Update**

If you do not want to set your base URL another way is.

Create a new core file in application/core/MY\_Config.php

### And paste this code

```
<?php
class MY_Config extends CI_Config {
   public function __construct() {
        $this->config =& get_config();
        log_message('debug', "Config Class Initialized");
        // Set the base_url automatically if none was provided
        if ($this->config['base_url'] == '')
            if (isset($_SERVER['HTTP_HOST']))
                $base_url = isset($_SERVER['HTTPS']) && strtolower($_SERVER['HTTPS']) !==
'off' ? 'https' : 'http';
                $base_url .= '://'. $_SERVER['HTTP_HOST'];
                $base_url .= str_replace(basename($_SERVER['SCRIPT_NAME']), '',
$_SERVER['SCRIPT_NAME']);
            }
            else
                $base_url = 'http://localhost/';
            $this->set_item('base_url', $base_url);
   }
```

### Something More About base\_url

# What happens if I don't set base\_url?

You will not get any Impotency error to set this and proceed. You can continue without setting, but you should know about HTTP header injection

# If I did't set it what will show up?

You will get http://[::1] / instead of your actual URL.

# What does this mean http://[::1]/ ??

This is temporary URL which set by CI by Default. This will point the root of your document.

::1 - Server address (localhost) Read More about this

# How to set proper base\_url()??

Base URL should always point to root of your project folder. (outside application folder)

```
$config['base_url'] = 'http://localhost/path/to/project'; # If localhost
$config['base_url'] = 'http://stackoverflow.com/'; # If live
$config['base_url'] = 'http://stackoverflow.com/documentation'; # If live & inside subdomain
(assume documentation is subfolder/subdomain)
```

# How to use base\_url()??

Most common use is to find the right path to your js or css files.

```
<link rel="stylesheet" href="<?php echo base_url('styles/style.css');?>" />
<script src="<?php echo base_url('vendor/jquery/jquery.min.js');?>"></script>
```

Adding the code above in your view will produce HTML as below:

```
<link rel="stylesheet" href="http://localhost/path/to/project/styles/style.css" />
<script src="http://localhost/path/to/project/vendor/jquery/jquery.min.js"></script>
```

### Links

1. URL Helper

Read Base url in Codeigniter online: http://www.riptutorial.com/codeigniter/topic/3643/base-url-in-codeigniter

# Chapter 5: Calling a model method in a view

### Introduction

Sometimes is more usefull make a call to a model's method in our view, so this is a way to make it

## **Examples**

Save a method call in a variable

### In Controller:

```
$this->load->model('your_model');
$data['model'] = $this->your_model;
```

### In view:

\$model->your\_method;

### Read Calling a model method in a view online:

http://www.riptutorial.com/codeigniter/topic/8163/calling-a-model-method-in-a-view

# **Chapter 6: CAPTCHA Helper**

### **Examples**

### **Loading this Helper**

This helper is loaded using the following code:

In Controller itself(\* can repeat again and again\*)

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

In config/autoload.php (Load only once)

```
$autoload['helper'] = array('captcha');
```

### create\_captcha(\$data)

Takes an array of information to generate the CAPTCHA as input and creates the image to your specifications, returning an array of associative data about the image.

```
[array]
(
  'image' => IMAGE TAG
  'time' => TIMESTAMP (in microtime)
  'word' => CAPTCHA WORD
)
```

The "image" is the actual image tag:

```
<img src="http://example.com/captcha/12345.jpg" width="140" height="50" />
```

The "time" is the micro timestamp used as the image name without the file extension. It will be a number like this: 1139612155.3422

The "word" is the word that appears in the captcha image, which if not supplied to the function, will be a random string.

### **Using the CAPTCHA helper**

Once loaded you can generate a captcha like this:

```
$vals = array(
  'word' => 'Random word',
  'img_path' => './captcha/',
  'img_url' => 'http://example.com/captcha/',
  'font_path' => './path/to/fonts/texb.ttf',
```

```
'img_width' => '150',
'img_height' => 30,
'expiration' => 7200
);

$cap = create_captcha($vals);
echo $cap['image'];
```

- The captcha function requires the GD image library.
- Only the img\_path and img\_url are required.
- If a "word" is not supplied, the function will generate a random ASCII string. You might put together your own word library that you can draw randomly from.
- If you do not specify a path to a TRUE TYPE font, the native ugly GD font will be used. The "captcha" folder must be writable (666, or 777)
- The "expiration" (in seconds) signifies how long an image will remain in the captcha folder before it will be deleted. The default is two hours.

### Complete example

Here is an example of usage with a database. On the page where the CAPTCHA will be shown you'll have something like this:

```
$this->load->helper('captcha');
$vals = array(
                => './captcha/',
   'imq_path'
   'img_url' => 'http://example.com/captcha/'
   );
$cap = create_captcha($vals);
$data = array(
   'captcha_time' => $cap['time'],
   'ip_address' => $this->input->ip_address(),
   'word' => $cap['word']
$query = $this->db->insert_string('captcha', $data);
$this->db->query($query);
echo 'Submit the word you see below:';
echo $cap['image'];
echo '<input type="text" name="captcha" value="" />';
```

Then, on the page that accepts the submission you'll have something like this:

```
// First, delete old captchas
$expiration = time()-7200; // Two hour limit
$this->db->query("DELETE FROM captcha WHERE captcha_time < ".$expiration);

// Then see if a captcha exists:
$sql = "SELECT COUNT(*) AS count FROM captcha WHERE word = ? AND ip_address = ? AND captcha_time > ?";
$binds = array($_POST['captcha'], $this->input->ip_address(), $expiration);
$query = $this->db->query($sql, $binds);
$row = $query->row();
```

```
if ($row->count == 0)
{
    echo "You must submit the word that appears in the image";
}
```

Read CAPTCHA Helper online: http://www.riptutorial.com/codeigniter/topic/7902/captcha-helper

# **Chapter 7: Codelgniter - Internationalization**

### Introduction

The language class in Codelgniter provides an easy way to support multiple languages for internationalization. To some extent, we can use different language files to display text in many different languages.

### **Examples**

### **Example**

### **Creating files Language**

To create a language file, you must end it with <code>\_lang.php</code>. For example, you want to create a language file for French language, then you must save it with <code>french\_lang.php</code>. Within this file you can store all your language texts in key, value combination in <code>\$lang</code> array as shown below.

```
$lang['key'] = 'val';
```

### Loading Language file

To use any of the language in your application, you must first load the file of that particular language to retrieve various texts stored in that file. You can use the following code to load the language file.

```
$this->lang->load('filename', 'language');
```

**filename**: It is the name of file you want to load. Don't use extension of file here but only name of file. **Language**: It is the language set containing it.

### **Fetching Language Text**

```
$this->lang->line('language_key');
```

To fetch a line from the language file simply execute the following code. Where **language\_key** is the key parameter used to fetch value of the key in the loaded language file.

### **Autoload Languages**

If you need some language globally, then you can autoload it in application/config/autoload.php file as shown below.

```
| Prototype:
| $autoload['language'] = array('lang1', 'lang2');
|
| NOTE: Do not include the "_lang" part of your file. For example
| "codeigniter_lang.php" would be referenced as array('codeigniter');
|
*/
$autoload['language'] = array();
```

Simply, pass the different languages to be autoloaded by Codelgniter.

Create a controller called Lang\_controller.php and save it in

application/controller/Lang\_controller.php

```
<?php
```

### class Lang\_controller extends CI\_Controller {

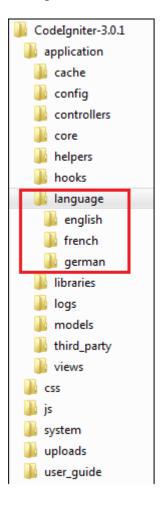
```
public function index() {
    //Load form helper
    $this->load->helper('form');
     //Get the selected language
    $language = $this->input->post('language');
     //Choose language file according to selected lanaguage
    if($language == "french")
        $this->lang->load('french_lang','french');
    else if($language == "german")
       $this->lang->load('german_lang','german');
     $this->lang->load('english_lang','english');
     //Fetch the message from language file.
     $data['msg'] = $this->lang->line('msg');
    $data['language'] = $language;
     //Load the view file
     $this->load->view('lang_view',$data);
?>
```

Create a view file called lang\_view.php and save it at application/views/lang\_view.php

```
$lang = array('english'=>"English",'french'=>"French",'german'=>"German");

foreach($lang as $key=>$val) {
    if($key == $language)
        echo "<option value = '".$key."' selected>".$val."</option>";
    else
        echo "<option value = '".$key."'>".$val."</option>";
}
?>
</select>
<?php
form_close();
echo $msg;
?>
</body>
</html>
```

Create three folders called **English**, **French**, and **German** in **application/language** as shown in the figure below.



Copy the below given code and save it in <code>english\_lang.php</code> file in <code>application/language/english</code> folder.

```
<?php
    $lang['msg'] = "CodeIgniter Internationalization example.";
?>
```

Copy the below given code and save it in french\_lang.php file in application/language/French folder.

```
<?php
    $lang['msg'] = "Exemple CodeIgniter internationalisation.";
?>
```

Copy the below given code and save it in german\_lang.php file in application/language/german folder.

```
<?php
    $lang['msg'] = "CodeIgniter Internationalisierung Beispiel.";
?>
```

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

```
$route['lang'] = "Lang_controller";
```

Execute the following URL in the browser to execute the above example.

```
http://yoursite.com/index.php/lang
```

Then Check in Your Browser. Thank you.

Read CodeIgniter - Internationalization online: http://www.riptutorial.com/codeigniter/topic/9864/codeigniter---internationalization

# **Chapter 8: Codeigniter Pagination**

### **Examples**

in this section i assume you know to calling helper, in the controller

```
public function house()
                         = site_url().'/user/house/';
   $config['base_url']
   $config['total_rows']
                          = $this->houses->select_row_house_design();
   $config['per_page'] = 12;
   $config['cur_tag_open'] = '<a><b>';
   $config['cur_tag_close'] = '</a></b>';
   $config['prev_tag_open'] = '';
   $config['prev_tag_close'] = '';
   $config['next_tag_open'] = '';
   $config['next_tag_close'] = '';
   $config['num_tag_open'] = '';
   $config['num_tag_close'] = '';
   $config['last_tag_open'] = '';
   $config['last_tag_close'] = '';
   $config['first_tag_open'] = '';
   $config['first_tag_close'] = '';
   $this->pagination->initialize($config);
   $from = $this->uri->segment('3');
   $data['design'] = $this->houses->select_all_house_design($config['per_page'],$from);
   $title['menu'] = 'house design';
   $this->load->view('user/template/header',$title);
   $this->load->view('user/house',$data);
   $this->load->view('user/template/footer');
```

in the view

pagination->create\_links(); ?>

Read Codeigniter Pagination online: http://www.riptutorial.com/codeigniter/topic/9393/codeigniter-pagination

# **Chapter 9: Codelgniter Shopping Cart**

### Introduction

We can utilize CI's shopping cart library when we are building a e-commerce site. we can setup add to cart, update cart items, delete cart items and even clear the cart functionalities using this library.

From Codelgniter Doc: The Cart Class permits items to be added to a session that stays active while a user is browsing your site. These items can be retrieved and displayed in a standard "shopping cart" format, allowing the user to update the quantity or remove items from the cart.

### **Examples**

### **Adding Items In Cart**

You should create functions in a controller like insert, update, delete, and clear cart etc. eg: for insert new item in cart write below code that accepts value.

And create functions in model for cart tasks like insert, update, delete, clear etc.

eg: for insert items in cart

```
$this->cart->insert($cartItem);
```

The insert() method will return the \$rowid if you successfully insert a single item. so you can check that item has inserted or not and show related message to user.

and you can insert multiple item like this

```
),
   array(
           'id'
                  => 'sku_567ZYX',
           'qty' => 1,
           'price' => 9.95,
           'name'
                    => 'Coffee Mug'
   ),
   array(
           'id'
                   => 'sku_965QRS',
           'qty'
                   => 1,
           'price' => 29.95,
           'name' => 'Shot Glass'
);
$this->cart->insert($data);
```

### **Basic Elements of CI Shopping Cart**

As we can add multiple elements in Cart array and then add it to cart session, but there are 4 basic elements which Cart class requires to add data successfully in cart session.

- 1. id (string)
- 2. qty (number)
- 3. price (number, decimal)
- 4. name (String)

And if you want to add more options regarding product then you can use 5th element which is "options". you can set array of options in this element.

It will look like this:

### **Display Cart Items**

You can show cart items by loop through cart or you can display single item from cart.

```
$cartContents = $this->cart->contents();
```

This will return an array of cart items so you can loop through this array using foreach loop.

```
foreach ($cartContents as $items) {
   echo "ID : ". $items["id"] . "<br>";
```

```
echo "Name : ". $items["name"] . "<br>";
echo "Quantity : ". $items["qty"] . "<br>";
echo "Price : ". $items["price"] . "<br>";
}
```

You can format this data as table cell or some div and then show in view.

### **Update cart item**

Rowid: The row ID is a unique identifier that is generated by the cart code when an item is added to the cart. The reason a unique ID is created is so that identical products with different options can be managed by the cart.

Every item in cart has a rowid element and by rowid you can update cart item.

```
$updateItem = array(
   'rowid' => 'b99ccdf16028f015540f341130b6d8ec',
   'qty' => 3
);
```

and then below code

```
$this->cart->update($data);
```

### **Delete cart items**

By using rowid element you can delete an item from cart. you just have to set item's qty to 0

```
$deleteItem = array(
    'rowid' => 'b99ccdf16028f015540f341130b6d8ec',
    'qty' => 0
);
$this->cart->update($data);
```

this will delete item with this rowid.

### Read CodeIgniter Shopping Cart online:

http://www.riptutorial.com/codeigniter/topic/9372/codeigniter-shopping-cart

# **Chapter 10: Codeigniter Troubleshooting**

### Introduction

For debugging and troubleshooting in Codeigniter, you can use Profiler, part of Output library

### **Examples**

### **Troubleshooting**

If you find that no matter what you put in your URL only your default page is loading, it might be that your server does not support the PATH\_INFO variable needed to serve search-engine friendly URLs.

As a first step, open your application/config/config.php file and look for the URI Protocol information. It will recommend that you try a couple alternate settings.

If it still doesn't work after you've tried this you'll need to force Codeigniter to add a question mark to your <code>urls</code>. To do this open your <code>application/config/config.php</code> file and change this:

```
$config['index_page'] = "index.php";
```

### To this:

```
$config['index_page'] = "index.php?";
```

### Read Codeigniter Troubleshooting online:

http://www.riptutorial.com/codeigniter/topic/7901/codeigniter-troubleshooting

# **Chapter 11: Codelgniter URI Segment**

### **Examples**

### **URI Segments:**

For example, please consider the following URI:

```
http://stackoverflow.com/questions/some-number/how-can-i-do-this/others
```

Segment allows to retrieve a specific segment form URI string where n is a segment number. Segments are numbered from left to right. For example, the following code:

```
$this->uri->segment(n)
```

Is used to retrieve a specific segment from the URI where n is the segment number.

```
echo $this->uri->segment(0);//it will print stackoverflow.com
echo $this->uri->segment(1);//it will print questions
echo $this->uri->segment(2);//it will print some-number
echo $this->uri->segment(3);//it will print how-can-i-do-this
echo $this->uri->segment(4);//it will print others
```

### Get last and before last URI segment

### Get last segment

```
echo end($this->uri->segment_array()); //it will print others
```

### Get before last segment

```
echo $this->uri->segment(count($this->uri->segment_array())-1); //it will print how-can-i-do-this
```

More info: [http://stackoverflow.com/questions/9221164/code-igniter-get-before-last-uri-segment][1]

### Read CodeIgniter URI Segment online:

http://www.riptutorial.com/codeigniter/topic/5402/codeigniter-uri-segment

# Chapter 12: Creating cronjob in codeigniter on linux hosting server

### **Examples**

### **Cronjob in Codeigniter**

```
<?php if ( ! defined('BASEPATH')) exit('No direct script access allowed');</pre>
class Cron extends CI_Controller
     * This is default constructor of the class
    public function __construct()
       parent::__construct();
        $this->load->library('input');
        $this->load->model('cron_model');
    /**
     * This function is used to update the age of users automatically
     * This function is called by cron job once in a day at midnight 00:00
    public function updateAge()
        // is_cli_request() is provided by default input library of codeigniter
       if($this->input->is_cli_request())
            $this->cron_model->updateAge();
        else
            echo "You dont have access";
?>
```

Call this from your cpanel/cron manager as follows (I added more ways to call it):

```
0 0 0 0 php-cli /home/your_site_user/public_html/index.php cron updateAge
```

### OR

```
0 0 0 0 wget http://your_site_url/cron/updateAge
```

### OR

```
0 0 0 0 0 /usr/bin/php /home/your_site_user/public_html/index.php cron updateAge
```

In my case: wget thing is working on plesk and cpanel (wget creating files on server in your root directory). php-cli works on plesk and cpanel both.

#### Calling a Codelgniter controller from cron

```
// application/controllers/Company_controller.php
<?php
if(!defined('BASEPATH'))
   exit('No direct script access allowed');
class Company_controller extends CI_Controller {
   public function __construct() {
       parent::__construct();
       $this->load->model('companies_model');
// cron entry would be something like this:
// 1 1 * * * /usr/bin/php [full path to]/index.php company_controller cronCLI AcmeCorp
>/dev/null 2>&1
   public function cronCLI($firmName) {
        if(php_sapi_name() == 'cli') {
           $this->companies_model->doSomeDB_Process($firmName);
       } else {
           echo 'CLI only';
   }
```

Read Creating cronjob in codeigniter on linux hosting server online:

http://www.riptutorial.com/codeigniter/topic/4980/creating-cronjob-in-codeigniter-on-linux-hosting-server

# **Chapter 13: Error Handling**

# Introduction

Codelgniter lets you build error reporting into your applications using the functions described below. In addition, it has an error logging class that permits error and debugging messages to be saved as text files.

# **Examples**

show\_error()

This function will display the error message supplied to it using the following error template:

Path - application/errors/error\_general.php

The optional parameter \$status\_code determines what HTTP status code should be sent with the error.

# **Syntax**

show\_error(\$message, \$status\_code, \$heading = 'An Error Was Encountered')

#### **Parameters:**

- \$message (mixed) Error message
- \$status\_code (int) HTTP Response status code
- \$heading (string) Error page heading

Return type: void

# Source

1. show\_error in codeigniter.com

show 404()

This function will display the 404 error message supplied to it using the following error template:

Path - application/errors/error\_404.php

The function expects the string passed to it to be the file path to the page that isn't found. Note

that Codelgniter automatically shows 404 messages if controllers are not found.

CodeIgniter automatically logs any show\_404() calls. Setting the optional second parameter to FALSE will skip logging.

# **Syntax**

```
show_404($page = '', $log_error = TRUE)
```

#### **Parameters:**

- \$page (string) URI string
- \$log\_error (bool) Whether to log the error

Return type: void

# Source

1. show\_404 in codeigniter.com

### log\_message()

This function lets you write messages to your log files. You must supply one of three "levels" in the first parameter, indicating what type of message it is (debug, error, info), with the message itself in the second parameter.

#### Example:

```
if ($some_var == "") {
    log_message('error', 'Some variable did not contain a value.');
}
else {
    log_message('debug', 'Some variable was correctly set');
}
log_message('info', 'The purpose of some variable is to provide some value.');
```

# **Syntax**

```
log_message($level, $message);
```

#### Parameters:

- \$level (string) Log level: 'error', 'debug' or 'info'
- \$message (string) Message to log

Return type: void

# There are three message types:

- Error Messages. These are actual errors, such as PHP errors or user errors.
- **Debug Messages.** These are messages that assist in debugging. For example, if a class has been initialized, you could log this as debugging info.
- **Informational Messages**. These are the lowest priority messages, simply giving information regarding some process. Codelgniter doesn't natively generate any info messages but you may want to in your application.

**Note:** In order for the log file to actually be written, the "logs" the folder must be writable. In addition, you must set the "threshold" for logging in application/config/config.php. You might, for example, only want error messages to be logged, and not the other two types. If you set it to zero logging will be disabled.

Read Error Handling online: http://www.riptutorial.com/codeigniter/topic/8699/error-handling

# **Chapter 14: Form Validation**

# **Examples**

#### **Validate Form Example**

```
// initialize library
$this->load->library('form_validation');
$this->form_validation->set_rules('username', 'Username', 'required|max_length[20]'); // Add
validation rules for require and max
$this->form_validation->set_rules('password', 'Password', 'required|matches[password]'); //
Validation for the input match
$this->form_validation->set_rules('passconf', 'Password Confirmation', 'required');
$this->form_validation->set_rules('email', 'Email',
'required|valid_email|is_unique[userTable.emailColumn'); // add validation for the email and
check the emailColumn in userTable for unique value
$this->form_validation->set_message('is_unique', 'The %s is already taken, Please use another
%s'); // add message for the is_unique
if ($this->form_validation->run() === FALSE)
{
        // fail
else
{
        // success
```

#### Link

Read Form Validation online: http://www.riptutorial.com/codeigniter/topic/7398/form-validation

# **Chapter 15: How to set time zone in Codelgniter**

# **Examples**

How to set the time zone in Codelgniter

Placing date\_default\_timezone\_set('Asia/Kolkata'); on config.php above base URL also works.

PHP List of Supported Time Zones

#### application/config.php

```
<?php
defined('BASEPATH') OR exit('No direct script access allowed');
date_default_timezone_set('Asia/Kolkata');</pre>
```

Another way I have found useful is if you wish to set a time zone for each user:

- Create a MY\_Controller.php file.
- Create a column in your user table you can name it timezone or any thing you want to. So that way, when user selects his time zone, it can can be set to his timezone when login.

#### application/core/MY\_Controller.php

```
<?php
class MY_Controller extends CI_Controller {
   public function __construct() {
       parent::__construct();
       $this->set_timezone();
   public function set_timezone() {
        if ($this->session->userdata('user_id')) {
            $this->db->select('timezone');
            $this->db->from($this->db->dbprefix . 'user');
            $this->db->where('user_id', $this->session->userdata('user_id'));
            $query = $this->db->get();
            if ($query->num_rows() > 0) {
               date_default_timezone_set($query->row()->timezone);
            } else {
               return false;
       }
   }
```

Also, to get the list of time zones in PHP:

```
$timezones = DateTimeZone::listIdentifiers(DateTimeZone::ALL);

foreach ($timezones as $timezone) {
   echo $timezone;
   echo "<br />";
}
```

### Another way to set timezone in codeigniter

To set the timezone in Codeigniter by extending date helper is an alternative way. For doing that need to follow the following two step activity.

1. Extend date helper with the following function:

```
if ( ! function_exists('now'))
{
    * Get "now" time
    * Returns time() based on the timezone parameter or on the
    * "time_reference" setting
    * @param string
    * @return
    */
    function now($timezone = NULL)
        if (empty($timezone))
           $timezone = config_item('time_reference');
        if ($timezone === 'local' OR $timezone === date_default_timezone_get())
           return time();
        $datetime = new DateTime('now', new DateTimeZone($timezone));
       sscanf($datetime->format('j-n-Y G:i:s'), '%d-%d-%d %d:%d:%d', $day, $month, $year,
$hour, $minute, $second);
        return mktime($hour, $minute, $second, $month, $day, $year);
    }
```

2. Now set the timezone as a value of time\_reference of config.php like:

```
$config['time_reference'] = 'Asia/Dhaka';
```

This is all set for using time zone.

**FYI:** List of Timezone List is added in the first example.

Read How to set time zone in Codelgniter online:

http://www.riptutorial.com/codeigniter/topic/3767/how-to-set-time-zone-in-codeigniter

# Chapter 16: How to use the CI libraries and helper

# **Examples**

#### Helper

Autoload your helper function. if you use many time in your project

```
$autoload['helper'] = array('url', 'form');
```

#### Use form helper in view

```
<?php echo form_open('Public/Login/loginAuth'); ?>
<?php
       echo "<div class='row'>";
       echo "<label for='inputEmail' class='col-lq-2 control-label col-lq-offset-2 col-md-2
control-label col-md-offset-2 col-sm-2 control-label col-sm-offset-2'>Enter Email</label>";
       \$email = array(
          "name"=>"email",
          "placeholder"=>"Email",
          "class"=>"form-control"
    echo "<div class='col-lg-6 col-md-6 col-sm-6'>";
    echo form_error('email');
   echo form_input($email)."<br/>";
 echo "</div>";
echo "</div>";
echo "<div class='row'>";
   echo "<label for='inputPassword' class='col-lg-2 control-label col-lg-offset-2 col-md-2
control-label col-md-offset-2 col-sm-2 control-label col-sm-offset-2'>Enter Password</label>";
 $password = array(
   "name"=>"password",
    "placeholder"=>"Password",
     "class"=>"form-control"
   );
 echo "<div class='col-lg-6 col-md-6 col-sm-6'>";
   echo form_error('password');
   echo form_password($password)."<br/>";
 echo "</div>";
echo "</div>";
echo "<div class='row'>";
 $submit = array(
   "name"=>"submit",
    "value"=>"Submit",
    "class"=>"btn btn-primary col-1g-offset-9 col-md-offset-9 col-sm-offset-9 col-xs-offset-9"
```

```
echo form_submit($submit)."<br/>";
echo "</div>";
```

?>

#### Using libraries and helpers

The example is for illustration purpose of using libraries and helpers and not a valid code. Do not copy / paste it on your projects.

#### HELPER helpers/sendEmail\_helper.php

```
if ( ! function_exists('sendEmail'))
    function sendEmail($email, $subject, $message, $lang, $cc = null, $file = null) {
        $CI =& get_instance();
        $mail_config['protocol'] = 'smtp';
        $mail_config['smtp_host'] = 'host';
        $mail_config['smtp_user'] = 'user';
        $mail_config['smtp_pass'] = 'pass';
        $mail_config['smtp_port'] = '587';
        $mail_config['smtp_timeout'] = 5;
        $mail_config['charset'] = 'utf-8';
        $mail_config['mailtype'] = 'html';
        $mail_config['wrapchars'] = 76;
        $mail_config['wordwrap'] = TRUE;
        $CI->email->initialize($mail_config);
        $CI->email->set_newLine('\r\n');
        if ($lang == "en") {
           $CI->email->from('support.en@domain.com', 'English Support');
        }else{
            $CI->email->from('support.fr@domain.com', 'Support en francais');
        $CI->email->to($email);
        if ($cc != null) {
            $CI->email->cc($cc);
        $CI->email->subject($subject);
        $CI->email->message($message);
        if ($file != null) {
            $CI->email->attach($file);
        //$CI->email->print_debugger();
       return $CI->email->send();
```

#### **LIBRARY** libraries/Alerter.php

```
class Alerter {
   public function alert_user($user_email, $subject, $message, $lang) {
```

```
//load helper
$this->load->helper('sendEmail');
//using helper
sendEmail($user_email, $subject, $message, $lang);
}

public function alert_admin($admin_email, $subject, $message, $lang, $reason){
    //load helper
    $this->load->helper('sendEmail');
    .....
    //using helper
sendEmail($admin_email, $subject, $message, $lang);
    .....
}
```

#### **CONTROLLER**

```
class Alerts extends CI_Controller {
    function __construct() {
        parent::__construct();
    }

    public function send_alert($userid) {

        //load library and model
        $this->load->library('Alerter');
        $this->load->model('alerter_model');

        //get user
        $user = $this->alerter_model->get_one_by_id($userid);

        //using library
        $this->Alerter->alert_user($user->email, $subject, $message, $lang);

}
}
```

Read How to use the CI libraries and helper online:

http://www.riptutorial.com/codeigniter/topic/3776/how-to-use-the-ci-libraries-and-helper

# Chapter 17: How to use the CI libraries and helper?

# **Syntax**

- 1. \$this->load->library('library\_name');
- 2. \$this->library\_name->function\_name();
- 3. \$this->load->library('cart'); # for helper \$this->load->helper('helperName');
- 4. \$this->cart->insert(\$Array);

# **Examples**

### Creating and calling a library

In order to use libraries in Codelgniter, you need to create a library.

```
class Pro {
  function show_hello_world()
  {
    return 'Hello World';
  }
}
```

In this library, which is called is pro.php, this file must be added to the following path.

Path: \xampp\htdocs\project\application\libraries

Now you can use it in your controller. Code to load this library in the controller:

```
$this->load->library('pro');
```

#### Code to use the library functions:

```
class Admin extends CI_Controller {
    function index()
    {
        $this->load->library('pro');
        echo $this->pro->show_hello_world();
    }
}
```

#### Read How to use the CI libraries and helper? online:

http://www.riptutorial.com/codeigniter/topic/3770/how-to-use-the-ci-libraries-and-helper-

# Chapter 18: Image/File Uploader In Codelgniter

#### Remarks

It is not necessary that you have to use the same names for the (Controller,File,Class,ID) or whatever it might be. All the things what I have used is for the understanding purpose of the coding flow and my assumptions. It is up to the developer who takes the code and edits the code/name according to their wish and then host the code and succeed.

# **Examples**

#### Single File/ Image Uploader

We shall now see how the Image/File Uploading code works in the native CI method with the help of the forms that has been proposed by the CI way.

File uploading in PHP has Two Scenarios. It is mentioned below as follows.

- Single Image/File uploader This can be saved with the help of the normal variable in the form attribute. (E.g.) <input type="file" name="image" />
- Multi-image/File Uploader This can be saved only with the help of the array variable for the name in the file type. (E.g.) <input type="file" name="image[]" />.

The array variable namely name="profile[]" can also be kept for the single image uploader as well as the multi-image uploader too.

Hence the Single Image/File Uploader Code in the Native CodeIgnitor format is as follows:

#### **View Part:**

```
<?php
echo form_close();
?>
```

Hence if we submit the form it will be going to the

- Employee Controller and search for the function named addemployee
- If you need the required attribute for the file uploader code you can add up the HTML5 attribute called required to the input tag.

Below is the two examples of how to use the required attribute but both the methods are the same as well.

```
1. Method One: <input type="file" name="photo" required="required" />
2. Method Two: <input type="file" name="photo" required />
```

Hence these are the some of the important tips that are to be followed in the view part of the image/file uploader.

#### **Controller Part:**

```
<?php if ( ! defined('BASEPATH')) exit('No direct script access allowed');</pre>
class Employee extends CI_Controller {
   function __construct() {
   parent::__construct();
    $this->load->model('employee_model');
    $this->load->helper('url'); //This will load up all the URL parameters from the helper
class
   $this->load->helper('form'); //This will load up all the form attributes that are need by
the form.
   public function addemployee()
        if($_FILES["userimage"]['name']=='')
            // Here you can directly redirect to the form page itself with the Error Message
        else
            $new_name = time().$_FILES["userimage"]['name']; //This line will be generating
random name for images that are uploaded
            $config['upload_path'] = FCPATH ."assets/fileupload/";
            $config['allowed_types'] = 'gif|jpg|png';
            $config['file_name'] = $new_name;
            $this->load->library('upload', $config); //Loads the Uploader Library
            $this->upload->initialize($config);
            if ( ! $this->upload->do_upload('userimage')) {}
            else
            $data = $this->upload->data(); //This will upload the `image/file` using native
image upload
            $data_value = array(
            'profile'=>$new_name,
```

```
); //Passing data to model as the array() parameter $this->employee_model->saveemployee($data_value); //save_employee is the function name in the Model }
}

}
```

**Note:** By default the upload routine expects the file to come from a form field called userfile, and the form must be of type multipart.

- Hence it will go to the <code>employee\_model</code> with the <code>\$data\_value</code> array and it will be saving the data under the function called <code>saveemployee</code>.
- If you would like to set your own field name simply pass its value to the do\_upload() method
- Using File Uploading class, we can upload files and we can also, restrict the type and size of the file to be uploaded.
- display\_errors() Retrieves any error messages if the do\_upload() method returned false. The method does not echo automatically, it returns the data so you can assign it however you need

#### **Notations:**

These are the notations that are available in the CI and we can define it in the <code>index.php</code> as a Short Definition and we can use it in the Entire project.

```
EXT: The PHP file extension

FCPATH: Path to the front controller (this file) (root of CI)

SELF: The name of THIS file (index.php)

BASEPATH: Path to the system folder

APPPATH: The path to the "application" folder
```

#### **Model Part:**

```
public function saveemployee($data_value)
{
    $this->db->insert('employee',$data_value);
}
```

- It will be saving the data on the employee table with the uploaded image name.
- And the image uploaded will be saved into the directory that we have created at the root folder or any other folder that we specify.

Read Image/File Uploader In CodeIgniter online:

http://www.riptutorial.com/codeigniter/topic/7450/image-file-uploader-in-codeigniter

# Chapter 19: Let's start: Hello World

# **Examples**

#### A very simple Hello World application

Starting from a fresh installation of Codeigniter 3, here is a simple way to start with an Hello World application, to break the ice with this solid PHP framework.

To do this you can start creating the view that we want to be shown for our Hello World app.

We are going to put it in your application folder, here:

In hello\_world.php(/application/views/)

It's just a simple HTML content.

Now, in order to make this view shown, we need a **controller**. The controller is the one that will recall the view in order for its content to be displayed.

In order for it to work properly, the controller needs to go in the proper controllers folder.

Here is where we are going to place our Hello World controller:

```
/application/controllers/Hello_world.php
```

(The controller's name is generally *snake\_case* with the first letter uppercase)

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

class Hello_world extends CI_Controller {
    public function __construct()
    {
        parent::__construct();
    }

    public function index() {</pre>
```

```
$this->load->view('hello_world');
}
```

The default function for a controller is the index function.

Now you will be able to see the content of your Hello World page accessing the following address:

```
http://[your_domain_name]/index.php/hello_world
```

or, in case you applied the fix using .htaccess (go back to the installation page for the fix)

```
http://[your_domain_name]/hello_world
```

(If you are working locally, most likely the address where you'll find your page is:

```
http://localhost/hello_world)
```

The URL is actually formed calling your controller class (in this case <code>Hello\_world</code>, but using all lowercase in the URL). In this case it is enough, since we used the index function. If we would have used a different function name (let's say <code>greetings</code>), we should have used an URL like this:

```
http://[your_domain_name]/hello_world/greetings
```

Which is structured as /[controller\_name]/[method\_name].

Here you go! Your first Codeigniter application is working!

#### Let's use the controller a little more

Now we'll try going for a little more complex example, using the capabilities of the controller to fill in the view.

Here is our view: /application/views/hello\_world.php

Now we have a placeholder for our greetings to be displayed.

Here is how we change the controller in order for this to work:

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

class Hello_world extends CI_Controller {

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

   public function greetings() {
      $data = array('greetings'=>'Hello World');
      $this->load->view('hello_world',$data);
   }
}
```

The sdata array is prepared with the information to be injected into the view, using the same label (greetings) that has been recalled inside the view.

The final result is the same as with the first example, but we are now using more of the potentiality of the framework!

#### Let's choose our greetings: Hello World or Good Bye World or ...?

Let's say that we want to have an alternative greeting that is accessible through a different URL. We might create a new function or even a new controller for that, but a best practice is to optimize what we already have, to make it work at it's best!

To do this, we'll keep the same view as in the previous examples, but we'll introduce a parameter to our function, in order for it to be able to choose between two different greetings:

```
<?php
defined('BASEPATH') OR exit('No direct script access allowed');
class Hello_world extends CI_Controller {
   public function __construct() {
       parent::__construct();
   public function greetings($my_greetings){
        switch($my_greetings)
           case 'goodbye':
               $say = 'Good Bye World';
           break:
            case 'morning':
               $say = 'Good Morning World';
           break;
            default:
               $say = 'Hello World';
        $data = array('greetings'=>$say);
       $this->load->view('hello_world',$data);
```

Now we have multiple greetings options! In order for them to be visualized, we are going to add the parameter at the URL, as follows:

```
http://[your_domain_name]/hello_world/greetings/goodbye
```

This will show us the message: "Good Bye World".

The structure of the URL is as follows:

```
http://[your_domain_name]/[controller_name]/[function_name]/[parameter_1]
```

In this case, in order to get back to our good old "Hello World", it's enough to call the former url, without parameters:

```
http://localhost/hello_world/greetings
```

You can add multiple parameters to your function (for instance, if you need 3 of them):

```
public function greetings($param1, $param2, $param3)
```

and they can be filled up using the url as follows:

```
http://[your_domain_name]/[controller_name]/[function_name]/[param1]/[param2]/[param3]
```

**e.g.** http://localhost/hello\_world/greetings/goodbye/italian/red

This way you can have parameters passed to you directly from the URL that will affect the content of what will be shown.

To know more about how to pass parameters through the URL, you might want look into the topic of routing!

Read Let's start: Hello World online: http://www.riptutorial.com/codeigniter/topic/2411/let-s-start-hello-world

# **Chapter 20: Make API in Codeigniter**

### Introduction

CodeIgniter provide auto initialized Output class which is very useful for creating API and differents type of documents output like .pdf, .csv, .image, etc...

**NOTE :-** Codeigniter default document type is HTML change it to application/json, API must be required type of json

# **Examples**

create the new controller with name API

```
<?php
defined('BASEPATH') OR exit('No direct script access allowed');
class Api extends CI_Controller {
 //default value
 private $login_credential;
 function __construct() {
   parent::__construct();
   //for user authentication
   $this->load->library('session');
   //set page header type Json as default
   $this->output->set_content_type('application/json');
   //default credentials for user login
   $this->login_credential = array(
       'username'=>'admin',
        'password'=>'test@123',
        'email'=> 'domain@test.com'
     );
}
?>
```

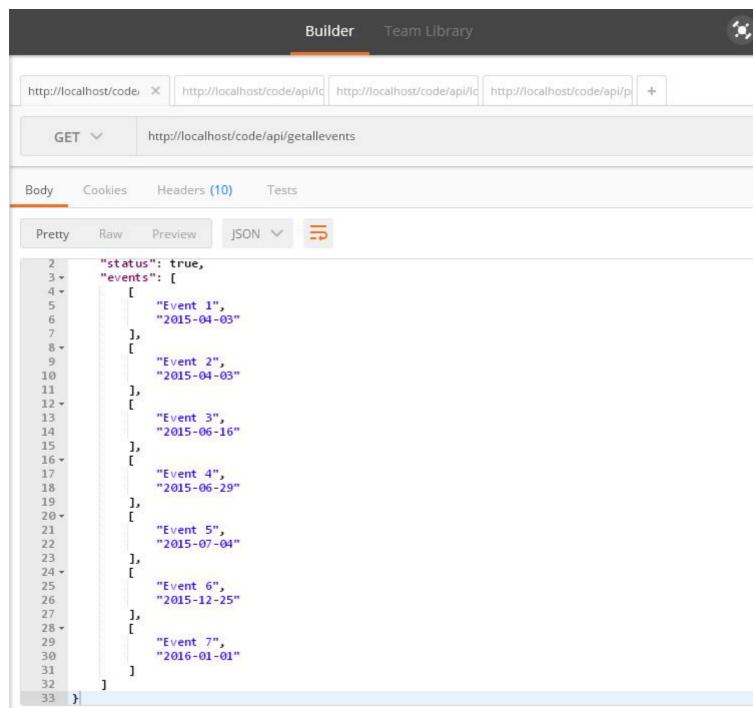
# Retrieve some data from API add following function in API controller

```
/*********************
@return all events
*********************

public function getallevents() {
    //get data from model
    $events = array(
        array('Event 1', '2015-04-03'),
        array('Event 2', '2015-04-03'),
        array('Event 3', '2015-06-16'),
        array('Event 4', '2015-06-29'),
        array('Event 5', '2015-07-04'),
```

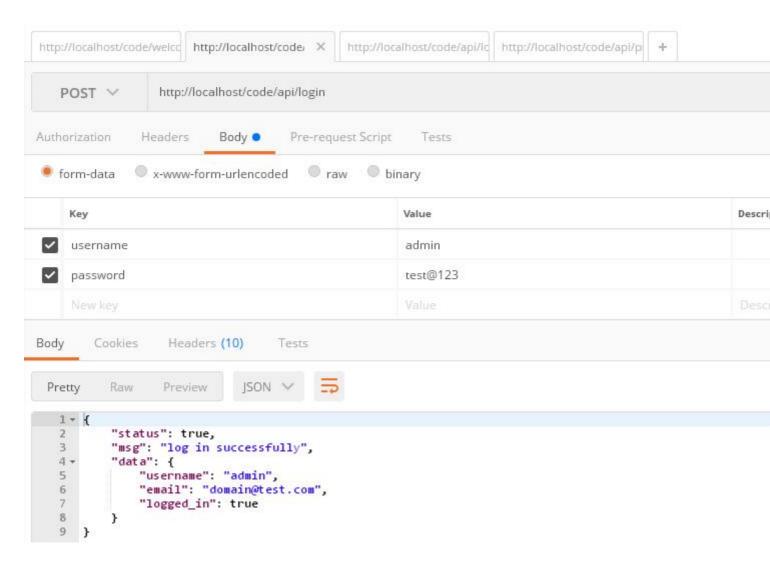
```
array('Event 6', '2015-12-25'),
    array('Event 7', '2016-01-01')
);
$this->output->set_output(json_encode(array('status'=>true,'events'=>$events)));
}
```

#### Postman view



## log in user API for allow access of some private data for perticular user

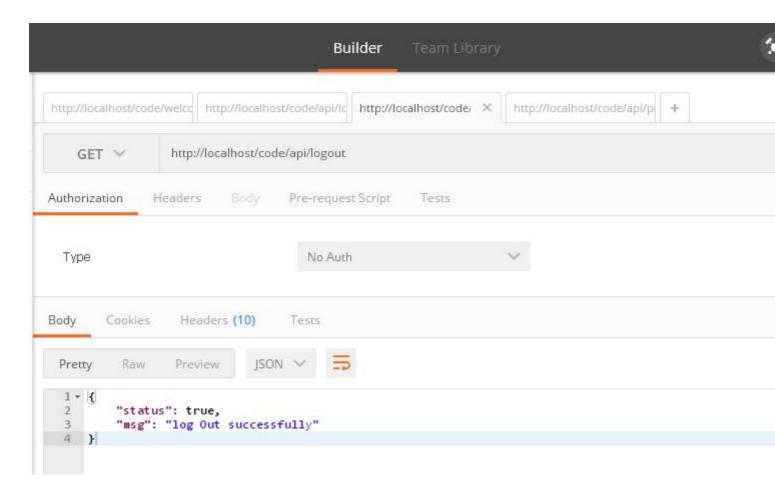
```
public function login(){
 $username=$this->input->post('username');
 $password=$this->input->post('password');
 if($username && $password){
    //check username and password
    if($this->login_credential['username']==$username && $this-
>login_credential['password']==$password) {
      //set user data to store in session
     $userdata = array(
       'username' => $this->login_credential['username'],
                => $this->login_credential['email'],
       'logged_in' => true
     );
      //set session
     $this->session->set_userdata($userdata);
      //display log in successfull msg
     $this->output->set_output(json_encode(array('status'=>true,'msg'=>'log in
successfully','data'=>$userdata)));
   }else{
      //wrong username or password
     $this->output->set_output(json_encode(array('status'=>false,'msg'=>'invalid Username or
password')));
  }
 }else{
    //when username and password not set
   $this->output->set_output(json_encode(array('status'=>false,'msg'=>'provide Username and
password')));
```



## user log out api to destroy the session of loged in user

```
/**************
log out user
*********************

public function logout() {
    //delete all session
    session_destroy();
    $this->output->set_output(json_encode(array('status'=>true,'msg'=>'log Out successfully')));
}
```

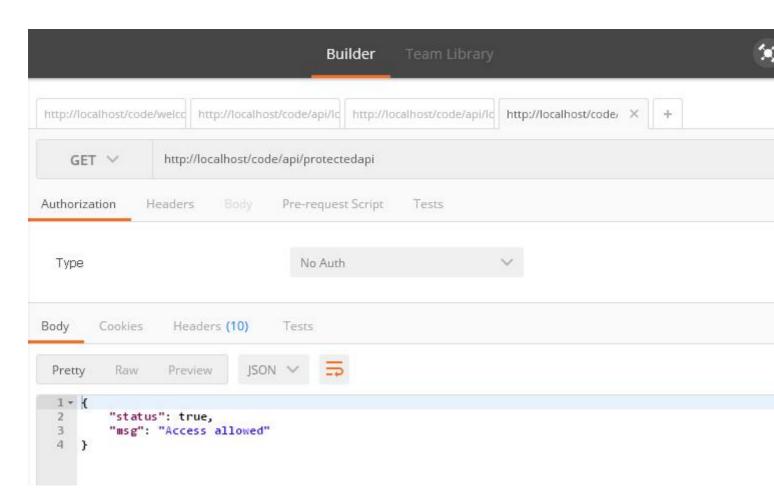


#### create protected api

#### This API not accessible for public user, authentication is required

```
/******************
this is protected api this is not accessible if you are not loged in
*******************

public function protectedapi() {
   if($this->session->userdata('logged_in')) {
      //this section only accessible when user loged in
      $this->output->set_output(json_encode(array('status'=>true,'msg'=>'Access allowed')));
} else{
   $this->output->set_output(json_encode(array('status'=>true,'msg'=>'Access denied')));
}
}
```



Read Make API in Codeigniter online: http://www.riptutorial.com/codeigniter/topic/10903/make-api-in-codeigniter

# **Chapter 21: Play with English word with INFLECTOR helper**

### Introduction

Inflector is a very handy helper to change/convert english word to singular, plural, camel case, humanize etc. The helper also help to check whether a word has plural version or not.

# **Examples**

#### Load inflector helper

To use the method of inflector helper, first load the helper like all other helper with the following code:

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

#### Make a word singular

Function singular (\$string), convert a plural word to singular. To get perfect result parameter \$string should be a single word. The function will return string.

```
echo singular("books"); //prints 'book'
```

## Check a word has plural

is\_countalbe(\$string) is use for checking a word has plural form or not. Return type will be boolean means if the given word has plural form it will return true, otherwise will return false.

```
is_countable('book'); // Returns TRUE
```

## Make a word plural

For getting plural form of any English word the plural (\$string) function is handy. Like singular (\$string), the function plural (\$string) also return string result.

```
echo plural("book"); //prints 'books'
```

## Camelized the string

Camel Case is the practise of writing compound words or phrases where every word begins with Capital letter, without space between word. The function <code>camelize(\$string)</code> helps to make a string

camelized. It converts a string of words separated by spaces or underscores to camel case.

```
echo camelize('Mc donald'); //Prints mcDonald
```

#### Remove / Add delimiter between words

# Remove delimiter

The function humanize (\$words), takes multiple words separated by underscores and adds spaces for underscores with capitalized each word.

```
echo humanize('mac_donald'); // Prints 'Mac Donald'
```

The function can also replace any declared separator/delimiter. In this case, delimiter will be second parameter.

```
echo humanize('mac-donald','-'); // Prints 'Mac Donald'
echo humanize('mac#donald','#'); // Prints 'Mac Donald'
```

# **Add Underscore**

On the other hand, underscore (\$words) function replace the space between words with underscore(\_).

```
echo underscore('Mac Donald'); // Prints 'mac_donald'
```

Read Play with English word with INFLECTOR helper online: http://www.riptutorial.com/codeigniter/topic/8057/play-with-english-word-with-inflector-helper

# **Chapter 22: Query Structure**

# **Examples**

#### **Selecting Data**

The following functions allow you to build SQL SELECT statements.

```
$this->db->get()
```

This runs the selection query and returns the result. Can be used by itself to retrieve all records from a table:

```
$query = $this->db->get('tablename'); // Produces: SELECT * FROM tablename
```

The second and third parameters enable you to set a limit and offset clause:

```
$query = $this->db->get('tablename', 10, 20);

// Executes: SELECT * FROM tablename LIMIT 20, 10

// (in MySQL. Other databases have slightly different syntax)
```

#### **Selecting Data**

#### Selecting data with condition

#### Selecting data with multiple conditions

#### Select data with condition and limit

```
return $query->result();
```

#### Select data with condition, maximum rows and order descending

#### **Selecting data with second Optional Parameter**

Usually we are not using second parameter in <code>select([\$select = '\*'[, \$escape = NULL]])</code> in Codelgniter. If you set it to FALSE, Codelgniter will not try to protect your field or table names.

In the following example, we are going to select the datetime type field by formatting it using sql query and set it FALSE (By doing this, we are going to tell CI not to escape the query automatically).

```
public function getUserInfo($id)
{
    $this->db->select('BaseTbl.id, BaseTbl.name, DATE_FORMAT(BaseTbl.createdDtm, "%d-%m-%Y")
AS createdDtm', FALSE); // FALSE is the second optional parameter
    $this->db->from('tbl_users as BaseTbl');
    $this->db->where('isDeleted', 0);
    $this->db->where('BaseTbl.id', $id);
    $query = $this->db->get();

return $query->result();
}
```

If we are not set it to FALSE, it will automatically escapes and break the query.

## Join Tables Using Query Builder

Sometimes we need to join multiple tables to get aggregate data in return. here is how we can achieve the same using Codelgniter Query Builder / Active Records.

Here we use join() to join multiple tables and we can change join type in 3rd parameter like "inner", "left", "right" etc.

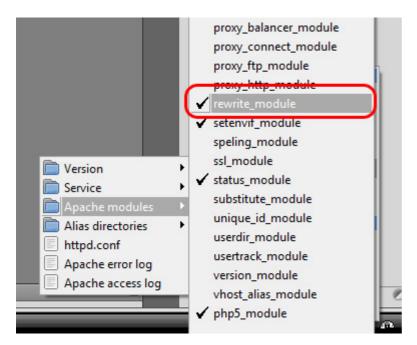
Read Query Structure online: http://www.riptutorial.com/codeigniter/topic/3769/query-structure

# **Chapter 23: Removing index.php using WAMP and CodeIgniter**

# **Examples**

How to remove the index.php from url's with using wamp and codeigniter

First thing to do is enable the mod rewrite on wamp go to Apache modules and scroll down the list If not showing tick enable it and then restart all servers.



Linux users can also use below terminal command to enable rewrite module

```
sudo a2enmod rewrite
```

#### Then restart apache using:

```
sudo service apache2 restart
```

Then out side of your application folder create a file called .htaccess

```
project > application

project > system

project > .htaccess

project > index.php
```

#### Try this code below

```
Options +FollowSymLinks
RewriteEngine on
RewriteCond $1 !^(index\.php|images|robots\.txt)
RewriteCond %{REQUEST_FILENAME} !-f
RewriteCond %{REQUEST_FILENAME} !-d
RewriteRule ^(.*)$ ./index.php/$1 [L]
```

If not here is some more htaccess examples

Then go to the config.php file. Set your base\_url and make the index\_page blank

```
$config['base_url'] = ((isset($_SERVER['HTTPS']) && $_SERVER['HTTPS'] == "on") ? "https" :
"http");
    $config['base_url'] .= "://".$_SERVER['HTTP_HOST'];
    $config['base_url'] .=
str_replace(basename($_SERVER['SCRIPT_NAME']),"",$_SERVER['SCRIPT_NAME']);
    $config['index_page'] = '';
```

Hope this helps you can use the htaccess files from examples for others.

Read Removing index.php using WAMP and CodeIgniter online: http://www.riptutorial.com/codeigniter/topic/4340/removing-index-php-using-wamp-and-codeigniter

# **Chapter 24: Securing your web application**

# Introduction

Remember CodeIgniter is a development Framework. It doesn't strive to make you're application secure. It merely gives you the tools to do it yourself. If you look at CI's Security page, it pretty clear they are expecting the developer to understand Application Security and build it into their application.

If WebApp security is relatively new for you, I would start with OWASP. It might be advantageous to look at look other frameworks such as Zend or Cake which I believe do more upfront things

# **Syntax**

\$freshdata = \$this->security->xss\_clean(\$user\_input\_data);

#### **Parameters**

array of user input	blank
insert array of user input in xss_filter(\$array of user input)	Blank

# **Examples**

#### **XSS Prevention**

XSS means cross-site scripting. CodeIgniter comes with XSS filtering security. This filter will prevent any malicious JavaScript code or any other code that attempts to hijack cookie and do malicious activities. To filter data through the XSS filter, use the xss\_clean() method as shown below.

```
$data = $this->security->xss_clean($data);
```

You should use this function only when you are submitting data. The optional second Boolean parameter can also be used to check image file for XSS attack. This is useful for file upload facility. If its value is true, means image is safe and not otherwise.

## **SQL** Injection Prevention

SQL injection is an attack made on the database query. In PHP, we use **mysql\_real\_escape\_string()** function to prevent this along with other techniques but Codelgniter provides inbuilt functions and libraries to prevent this.

We can prevent SQL Injection in CodeIgniter in the following three ways -

- Escaping Queries
- Query Biding
- Active Record Class

#### **Escaping Queries**

```
<?php
    $username = $this->input->post('username');
    $query = 'SELECT * FROM subscribers_tbl WHERE user_name = '.
    $this->db->escape($email);
    $this->db->query($query);
?>
```

sthis->db->escape() function automatically adds single quotes around the data and determines the data type so that it can escape only string data.

#### **Query Biding**

```
<?php
   $sql = "SELECT * FROM some_table WHERE id = ? AND status = ? AND author = ?";
   $this->db->query($sql, array(3, 'live', 'Rick'));
?>
```

In the above example, the question mark(?) will be replaced by the array in the second parameter of the <code>query()</code> function. The main advantage of building query this way is that the values are automatically escaped which produce safe queries. Codelgniter engine does it for you automatically, so you do not have to remember it.

#### **Active Record Class**

```
<?php
   $this->db->get_where('subscribers_tbl',array('status'=> active','email' =>
'info@arjun.net.in'));
?>
```

Using active records, query syntax is generated by each database adapter. It also allows safer queries, since the values escape automatically.

## **Hiding PHP Errors**

In production environment, we often do not want to display any error message to the users. It is good if it is enabled in the development environment for debugging purposes. These error messages may contain some information, which we should not show to the site users for security reasons.

There are three CodeIgniter files related with errors. PHP Error Reporting Level

Different environment requires different levels of error reporting. By default, development will show

errors but testing and live will hide them. There is a file called index.php in root directory of Codelgniter, which is used for this purpose. If we pass zero as argument to error\_reporting() function then that will hide all the errors.

#### **CSRF** Prevention

CSRF stands for cross-site request forgery. You can prevent this attack by enabling an option in the application/config/config.php file as shown below.

```
$config['csrf_protection'] = TRUE;
```

When you create a form using the <code>form\_open()</code> function, it will automatically insert a CSRF token in a hidden field. You can also manually add the CSRF token using the <code>get\_csrf\_token\_name()</code> and <code>get\_csrf\_hash()</code> function. As their names suggest, the <code>get\_csrf\_token\_name()</code> function will return the name of the CSRF token, while <code>get\_csrf\_hash()</code> will return the hash.

The CSRF token can be regenerated every time for submission or you can also keep it the same throughout the life of the CSRF cookie. Setting the configuration option 'csrf\_regenerate' will force regeneration of the token as shown below.

```
$config['csrf_regenerate'] = TRUE;
```

You can whitelist URLs from CSRF protection by setting matches for them in the configuration array using the key 'csrf\_exclude\_uris' as shown below. You can also use regular expressions.

```
$config['csrf_exclude_uris'] = array('api/person/add');
```

## Remove Abuse Data from User input

## **XSS Prevention on User Input**

Don't rely on any user input. user input everything like <code><script></code> tag or any javascript <code>alert()</code>; so we have to prevent this all data will no run in our browser. so we have to use xss prevention method to restrict our secure data to kept in hacker hand and also it's developer's responsibility to user's input validation and solve error by programatically.

so, check this is a example of xss prevention in Codelgniter.

so, after added xss\_filtering we don't have any issue to run any abuse code which input by user. and Codelgniter replace this abuse tag with [removed] keyword.

Read Securing your web application online:

http://www.riptutorial.com/codeigniter/topic/9857/securing-your-web-application

# **Chapter 25: Sending Email**

#### Remarks

In CodeIgniter 3 you have to include the parameter:

```
$config['newline'] = "\r\n";
```

It just won't work without it.

If you don't care about new lines and you're using Codelgniter 2 then this config parameter is optional.

# **Examples**

#### **Load The Email Library**

First you need to load the email library.

Do this either in the controller file that will be sending the email:

```
$this->load->library('email');
```

Or load it globally in the autoload.php file in the config folder:

```
$autoload['libraries'] = array('email');
```

While you're there, you may want to load the email helper if you want to use some of Codelgniter's built in shortcuts:

```
$autoload['helper'] = array('email');
```

The email helper can be loaded in the Controller file in a similar way to the email library:

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

## **Set Your Email Config Parameters**

Create a new file in the application/config folder named email.php

Set the parameters for sending email. These will load when you send your email.

```
$config['newline'] = "\r\n"; //You must use double quotes on this one
$config['protocol'] = 'smtp';
$config['smtp_host'] = 'ssl://smtp.gmail.com'; //Change for your specific needs
```

```
$config['smtp_port'] = 465; //Change for your specific needs
$config['smtp_user'] = 'test@test.com'; //Change for your specific needs
$config['smtp_pass'] = 'yourpassword'; //Change for your specific needs
$config['charset'] = 'iso-8859-1';
$config['mailtype'] = 'text'; //This can be set as 'html' too
```

#### **Create Your Email**

```
$this->email->from('accounts@yourwebsite.com', 'Tom Webmaster');
$this->email->to('fred@fake.com', 'Freddie Fakeperson');
$this->email->subject('Your Account Is Active');
$this->email->message('Welcome to our new site!');
```

In the 'from' method, the first parameter is the email address your are sending from, the second parameter is the name you'd like the receiver to see.

In the 'to' method, you define who the email is being sent to.

The 'subject' method defines the subject of the email.

The 'message' method defines what will be in the body of your email.

Any of these could be a data that was sent to your site by a user. So you may have a variable in here that holds posted data. So they may look more like this:

```
$this->email->to($email, $username);
```

#### Send Your Email

```
$sent = $this->email->send();

//This is optional - but good when you're in a testing environment.
if(isset($sent)) {
   echo "It sent!";
}else{
   echo "It did not send.";
}
```

#### Send An HTML Email

But you don't just want a plain text email. You want a pretty html email.

Set your config file as html:

```
$config['mailtype'] = 'html';
```

If you want to pass data (like a username for example) to the html email, put them in an array:

```
$data = array('name' => $name,
```

```
'email' => $email,
'phone' => $phone,
'date' => $date);
```

Then when sending, point your 'message' to a view. Then pass your data array to it:

```
$this->email->message($this->load->view('new_user',$data, true));
```

In your application/view folder create your view.

In this case it's named 'new\_user.php'.

You can style this anyway you'd like. Here's a quick example:

```
<html>
<head>
    <style type='text/css'>
       body {background-color: #CCD9F9;
             font-family: Verdana, Geneva, sans-serif}
       h3 {color:#4C628D}
       p {font-weight:bold}
    </style>
</head>
<body>
    <h3>Hi <?php echo $name; ?>, </h3>
    <h3>Thanks for contacting us.</h3>
    You've taken your first step into a larger world.
    We really appreciate your interest.
</body>
</html>
```

#### **Contact Form**

#### Controller (Pages.php)

```
public function contact()
{
    $this->load->library('email');
    $this->load->library('form_validation');

    //Set form validation
    $this->form_validation->set_rules('name', 'Name',
'trim|required|min_length[4]|max_length[16]');
    $this->form_validation->set_rules('email', 'Email',
'trim|required|valid_email|min_length[6]|max_length[60]');
    $this->form_validation->set_rules('message', 'Message',
'trim|required|min_length[12]|max_length[200]');

    //Run form validation
    if ($this->form_validation->run() === FALSE)
```

```
$this->load->view('contact');
    } else {
        //Get the form data
        $name = $this->input->post('name');
        $from_email = $this->input->post('email');
        $subject = $this->input->post('subject');
        $message = $this->input->post('message');
        //Web master email
        $to_email = 'admin@domain.com'; //Webmaster email, who receive mails
        //Mail settings
        $config['protocol'] = 'smtp';
        $config['smtp_host'] = 'ssl://smtp.gmail.com';
        $config['smtp_port'] = '465';
        $config['smtp_user'] = 'mail@domain.com'; // Your email address
        $config['smtp_pass'] = 'mailpassword'; // Your email account password
        $config['mailtype'] = 'html'; // or 'text'
        $config['charset'] = 'iso-8859-1';
        $config['wordwrap'] = TRUE; //No quotes required
        config['newline'] = "\r\n"; //Double quotes required
        $this->email->initialize($config);
        //Send mail with data
        $this->email->from($from_email, $name);
        $this->email->to($to_email);
        $this->email->subject($subject);
        $this->email->message($message);
        if ($this->email->send())
            $this->session->set_flashdata('msg','<div class="alert alert-success">Mail
sent!</div>');
            redirect('contact');
        } else {
           $this->session->set_flashdata('msg','<div class="alert alert-danger">Problem in
sending</div>');
           $this->load->view('contact');
```

#### Views (contact.php)

```
<input name="email" placeholder="Your e-mail" type="text" value="<?php echo</pre>
set_value('email'); ?>" class="form-control" />
            <?php echo form_error('email', '<span class="text-danger">','</span>'); ?>
        </div>
        <div class="form-group">
            <input name="subject" placeholder="Subject" type="text" value="<?php echo</pre>
set_value('subject'); ?>" class="form-control" />
        </div>
        <div class="form-group">
           <textarea name="message" rows="4" class="form-control" placeholder="Your</pre>
message"><?php echo set_value('message'); ?></textarea>
           <?php echo form_error('message', '<span class="text-danger">','</span>'); ?>
        </div>
        <button name="submit" type="submit" class="btn btn-primary" />Send/button>
        </form>
    </div>
</div>
```

Read Sending Email online: http://www.riptutorial.com/codeigniter/topic/5403/sending-email

## **Chapter 26: session set flashdata**

## **Examples**

How to Set session flash data in controller

You can set flash data in controller just using this syntax

```
$this->session->set_flashdata('message', 'Message you want to set');
```

Here 'message' is identifier for access data in view. You can Set more than one message by just changing identifier.

#### for ex

```
$this->session->set_flashdata('my_alert', 'Message you want to set');
$this->session->set_flashdata('my_warnig', 'Message you want to set');
```

## How to Display Flashdata in view

You can simply access the fashdata in view like this

```
<?php echo $this->session->flashdata('message'); ?>
```

For access multiple message just change identifier

#### For Ex.

```
<?php echo $this->session->flashdata('my_alert'); ?>
<?php echo $this->session->flashdata('my_warnig'); ?>
```

Read session set flashdata online: http://www.riptutorial.com/codeigniter/topic/9688/session-set-flashdata

# Chapter 27: url suffix

## **Examples**

url suffix

\$config['url\_suffix'] = 'html';

change everything you want like html or asp, this is will work after your rwmoving index.php on config.php

Read url suffix online: http://www.riptutorial.com/codeigniter/topic/9379/url-suffix

## **Chapter 28: Use of hooks**

## **Examples**

### **Enabling Hooks**

The hooks feature can be globally enabled/disabled by setting the following item in the application/config/config.php file:

```
$config['enable_hooks'] = TRUE;
```

## **Defining a Hook**

Hooks are defined in the application/config/hooks.php file. Each hook is specified as an array with this prototype

The array index correlates to the name of the particular hook point you want to use. In the above example, the hook point is pre\_controller. A list of hook points is found below. The following items should be defined in your associative hook array:

**class** The name of the class you wish to invoke. If you prefer to use a procedural function instead of a class, leave this item blank.

function The function (or method) name you wish to call.

**filename** The file name containing your class/function.

file-path The name of the directory containing your script.

**params** Any parameters you wish to pass to your script. This item is optional.

#### **Hook Points**

```
pre_system
```

Called very early during system execution. Only the benchmark and hooks class have been loaded at this point. No routing or other processes have happened.

```
pre_controller
```

Called immediately prior to any of your controllers being called. All base classes, routing, and security checks have been done.

```
post_controller_constructor
```

Called immediately after your controller is instantiated, but prior to any method calls happening.

```
post_controller
```

Called immediately after your controller is fully executed.

```
display_override
```

Overrides the  $\_display()$  method, used to send the finalized page to the web browser at the end of system execution. This permits you to use your own display methodology. Note that you will need to reference the CI super-object with  $this-CI = get_instance()$  and then the finalized data will be available by calling  $this-CI-output-get_output()$ .

```
cache_override
```

Enables you to call your own method instead of the <code>\_display\_cache()</code> method in the Output Library. This permits you to use your own cache display mechanism.

```
post_system
```

Called after the final rendered page is sent to the browser, at the end of system execution after the finalized data is sent to the browser.

## **Pre Controller Hook example using Codelgniter**

In application/hooks folder, create a file with name Blocker.php and paste the below code.

```
<?php
class Blocker {

   function Blocker() {
   }

   /**
    * This function used to block the every request except allowed ip address
    */
   function requestBlocker() {

        if ($_SERVER["REMOTE_ADDR"] != "49.248.51.230") {
            echo "not allowed";
            die;
        }
    }
}
</pre>
```

In application/config/hooks.php, declare the following hook.

In application/config/config.php, set following value as true

## **Defining a Hook**

Hooks are defined in application/config/hooks.php file. Each hook is specified as an array with this prototype:

```
$hook['pre_controller'] = array(
    'class' => 'MyClass',
    'function' => 'Myfunction',
    'filename' => 'Myclass.php',
    'filepath' => 'hooks',
    'params' => array('bread', 'wine', 'butter')
);
```

- class- The class that you wish to invoke if it is procedural code leave it as blank.
- FUNCTION- The function name you wish to call.
- FILENAME- The file name containing your class/function.
- FILEPATH- Location of the hook file.
- PARAMS-Additional parameter if needed it is optional

Read Use of hooks online: http://www.riptutorial.com/codeigniter/topic/3953/use-of-hooks

# Chapter 29: Using Model in codeigniter

## **Examples**

### **Creating Model**

Go to application/model

# File name - **Home\_model.php**Inside the file

### And when you need to load this model:

```
$this->load->model('home_model');
$this->home_model->get_data();
```

Or If you would like your model assigned to a different object name you can specify it like this:

```
$this->load->model('home_model', 'home');
$this->home->get_data();
```

## **Loading Model**

```
Syntax - $this->load->model('model_name');
Practice - $this->load->model('home_model');
```

If you would like your model assigned to a different object name you can specify it via the second parameter of the loading method:

#### Syntax -

```
$this->load->model('model_name', 'foobar');
$this->foobar->method();
```

#### Practice -

```
$this->load->model('home_model', 'home');
$this->home->get_data();
```

### **Calling Model function**

### **Syntax**

```
$this->load->model('model_name');
$this->model_name->method_name();
```

#### **Practice**

```
$this->load->model('home_model');
$this->home_model->get_data();
```

### Passing data to model

### **Syntax**

```
$array = array(
    '' => ,
    ); # can pass array
$singelData = ''; # something just a filed value
$this->load->model('model_name');
$this->model_name->method_name($singelData, $array);
```

#### **Practice**

```
$array = array(
    'name' => 'codeigniter',
    'version' => '3.0',
    'isArray' => 'yes',
    );
$singelData = 'using model'; # something just a filed value
$this->load->model('home_model');
$this->home_model->get_data($singelData, $array);
```

## Receiving data from controller

```
public function method_name($single, $array)
{
    echo $single;
    print_r($array);
}
```

### Beware with the order which pass from controller to model.

#### **Return Data to Controller**

this will return the result with matched id and username to the controller.

Read Using Model in codeigniter online: http://www.riptutorial.com/codeigniter/topic/3777/using-model-in-codeigniter

# **Chapter 30: Using Sessions**

### Remarks

The Codeigniter **Sessions** class uses browser cookies to save data that will persist across multiple page loads.

Reference: https://codeigniter.com/user\_guide/libraries/sessions.html

## **Examples**

### **Creating a Session**

To Initialize a session, you can simply load it in your controller, this us usually placed inside the controller constructs, but it also can be autoloaded into the array found inside application/config/autoload.php:

```
$this->load->library('session');
```

## **Handling Session Data**

A session is simply an array consisting of the following user information:

- 1. The user's unique Session ID (this is a statistically random string with very strong entropy, hashed with MD5 for portability, and regenerated (by default) every five minutes)
- 2. The user's IP Address
- 3. The user's User Agent data (the first 120 characters of the browser data string)
- 4. The "last activity" time stamp.

Source (what-is-session-data)

## To retrieve session data

such as the SessionID:

```
$this->session->userdata('session_id');
```

Note - for Codeigniter 3.x, you can use the above syntax, but the concept or magic getters has been introduced, where you can use <code>\$this->session->session\_id</code>.

Remember that the userdata() returns NULL if the session item doesn't exist.

To retrieve all session data

# **To Set Session Data**

the set\_userdata() method allows you to set data into your session, the following example demonstrates an example array you wish to insert:

You can also set one data at a time, for example:

```
$this->session->set_userdata('some_name', 'some_value');
```

or

```
$some_name = 'some_value';
$this->session->set_userdata($some_name);
```

## **To Remove Session and Session Data**

```
$this->session->unset_userdata('some_name')
```

This method also accepts an array of item keys to unset:

For Codeiginter 3.x:

```
$array_items = array('username', 'email');
$this->session->unset_userdata($array_items);
```

For Codeiginter 2.x (this legacy syntax doesn't support 3.x):

```
$array_items = array('key' => 'value');
$this->session->unset_userdata($array_items);
```

Read Using Sessions online: http://www.riptutorial.com/codeigniter/topic/5793/using-sessions

# **Credits**

S. No	Chapters	Contributors
1	Getting started with codeigniter	Abdulla Nilam, Ariful Islam, BIBIN JOHN, Bilal Ahmad, cfnerd, Community, emstawicki, gabe3886, karel, Mitul, Prakash, Shiva127, zur4ik
2	Array Helper	Abdulla Nilam, Rana Ghosh
3	Authentication	Ahmet Can Boyraz
4	Base url in Codeigniter	Abdulla Nilam, Adrian P., Ariful Islam, Blubberguy22, sudopower, wolfgang1983
5	Calling a model method in a view	Saul
6	CAPTCHA Helper	Abdulla Nilam, Rana Ghosh
7	Codelgniter - Internationalization	ImBS
8	Codeigniter Pagination	Muhamad Riyan
9	Codelgniter Shopping Cart	Abdulla Nilam, Hemant Sankhla, Muhamad Riyan
10	Codeigniter Troubleshooting	Abdulla Nilam, ankit suthar, Mahdi Majidzadeh, Rana Ghosh
11	Codelgniter URI Segment	Adrian P., Md. Khairul Hasan
12	Creating cronjob in codeigniter on linux hosting server	Abdulla Nilam, kishor10d, Tim Duncklee
13	Error Handling	Abdulla Nilam, Rana Ghosh
14	Form Validation	Abdulla Nilam, ankit suthar, Lucifer MorningStar, Mitul, Murilo
15	How to set time zone in Codelgniter	Abdulla Nilam, Ariful Islam, Nadim Sheikh, RamenChef, rap-2-h, wolfgang1983
16	How to use the CI	Abdulla Nilam, Adrian P., karel, Mitul, NAW_AB, shantanu

	libraries and helper	
17	How to use the CI libraries and helper?	Abdulla Nilam, karel, Yaseen Ahmad
18	Image/File Uploader In Codelgniter	Andrey, Hanthony Tagam, Naresh Kumar .P
19	Let's start: Hello World	Abdulla Nilam, clami219, David, KuroKo3, Shiva127, Vishal
20	Make API in Codeigniter	Kundan Prasad
21	Play with English word with INFLECTOR helper	Ariful Islam
22	Query Structure	abdurRahaman, anju, DogeAmazed, Fabio Widmer, Hemant Sankhla, kishor10d, MAZux, Rahmat
23	Removing index.php using WAMP and Codelgniter	Ali, Ariful Islam, Gaurav, wolfgang1983
24	Securing your web application	ankit suthar, BIBIN JOHN, ImBS, moopet
25	Sending Email	gabe3886, Lucifer MorningStar, Miles, Rahamathullah MK
26	session set flashdata	Gopal Bhuva
27	url suffix	Muhamad Riyan
28	Use of hooks	Abdulla Nilam, ankit suthar, kishor10d, liamja, Mitul, Rafiqul Islam
29	Using Model in codeigniter	Abdulla Nilam, anju, gabe3886, Lucifer MorningStar, MAZux, Russ_AB
30	Using Sessions	Abdulla Nilam, ElmerCat, Prakash