

We completed the installation and configuration as well a CRUD with CodeIgniter. In this session we will focus on how to apply pagination.

Introduction to pagination: pagination is a term that used to locate the content in many pages. For example in our blog\_db database if we have 100 records. If we show all posts in one page it is hard to scan therefore we need these posts to locate in different pages such as to every page a specific numbers of posts. Considering this example If we want to have an every page 10 posts than the contents of our database will fit in 10 pages. For this we need a special library to do this task.

CodeIgniter's Pagination class is very easy to use, and it is 100% customizable, either dynamically or via stored preferences.

If you are not familiar with the term "pagination", it refers to links that allows you to navigate from page to page, like this:

[« First](#) < [1](#) [2](#) [3](#) [4](#) [5](#) > [Last »](#)

7.1 to apply pagination we need for below steps to take.

7.1.1 we should change the function of our controller that send a lots of records to view

7.1.2 than we load the link pagination in our view where we wanted

7.1.3 create one function in the model

7.1.4 change the existing function to support offset and limit

7.2 to change your controller's function that lists posts go to

"C:/wamp/www/CI/application/controllers/Home.php" and change the function that listing all posts as highlighted.

7.2.1 a minor change come in our controller which is loading the model in our constructor instead of in all functions. (Remove loading model from all functions and load only in controller as highlighted)

7.2.2 the major change is came to the get posts function of our controller as highlighted. There are many things to know about it for this please refer to codeIgniter use guide (pagination class) or reference given to you.

<?php

```
class Home extends CI_Controller {

    function __construct() {
        parent::__construct();
        $this->load->model('Posts_model');
    }

    //-----
    function index(){

        echo "Hello CodeIgniter";

    }
    //-----
    function dynamic_view(){
        $data['title'] = 'Dynamic View';
        $data['body'] = 'A view for Dynamic Contents!';
        $this->load->view('some_view',$data);
    }

    //-----
```

```

function get_posts(){
//first we need to load the pagination library
    $this->load->library('pagination');
//second specify which segment of URI should be sent as offset
    $offset=$this->uri->segment(3);
//third specify the base URL
    $config['base_url'] = base_url().'index.php/home/get_posts';
//fourth specifying total rows so we can count it
    $config['total_rows'] =$this->Posts_model->count_posts();
//fifth to specify how many posts in one page should be shown
    $config['per_page'] = 3;
//six we need to know according to which segment of URI pagination proceeded
    $config['uri_segment'] = 3;
//we need to initialize the settings
    $this->pagination->initialize($config);
//call a function from the model to return posts
    $data['posts']=$this->Posts_model->get_posts($config['per_page'],$offset);
    $this->load->view('something',$data);
}

//-----
function details($id){
    $data['post']=$this->Posts_model->get_post($id);
    $this->load->view('show_d',$data);
}
//-----
function add_post(){
    $this->load->view('new_post');
}
//-----

function add(){
    $data = array(
        'title' =>$this->input->post('title') ,
        'body' =>$this->input->post('body')
    );
    $this->Posts_model->add_post($data);
    redirect('home/get_posts');
}
//-----
function delete($id){
    $this->Posts_model->delete_post($id);
    redirect('home/get_posts');
}
//-----
function update_post($id){
    $data['post']=$this->Posts_model->get_post($id);
    $this->load->view('update_post',$data);
}
//-----

```

```

function update($id){
    $data = array(
        'title' =>$this->input->post('title') ,
        'body' =>$this->input->post('body')
    );
    $this->Posts_model->update_post($id,$data);
    redirect('home/get_posts');
}
}

```

7.3 now we need to change the view that is listing all posts. The only things we need to insert a link of pagination where we need to show. So go to "C:/wamp/www/CI/application/views/something.php" and edit it as below.

```

<!DOCTYPE html>
<html>
    <head>
        <title> All Posts</title>
    </head>
    <body>
<?php
        echo anchor('Home/add_post/', "<button> New Post</button>");
foreach ($posts as $row) {
    echo "<h2>".$row->title."</h2>";
    echo "<p>".substr(strip_tags($row->body), 0,50)."..."."</p>";
    echo anchor('Home/details/'.$row->id, "<button> show more</button> ");
    echo anchor('Home/delete/'.$row->id, "<button> Delete Post</button> ");
    echo anchor('Home/update_post/'.$row->id, "<button> Update Post</button>");
}
?>
        <?php echo "<br>" . $this->pagination->create_links();?>
    </body>
</html>

```

7.4 The only thing left is to change the model. We need to create a function to count all posts and change our existing get\_posts() function to return posts according to a specific offset and limit. So go to "C:/wamp/www/CI/application/models/Posts\_model.php" and edit it as below.

```

<?php
class Posts_model extends CI_Model{
    /*
    function get_posts(){
        $posts = $this->db->get('posts');
        return $posts->result();
    }
    *
    */
}

```

```
//change this function to return posts as offsets and limit
function get_posts($limit = 5, $offset = 0)
{
    return $this->db->get('posts',$limit,$offset)->result();
}

function get_post($x){
$post = $this->db->select()->from('posts')->where('id',$x)->get();
    return $post->row();
}
function add_post($data){
    $this->db->insert('posts',$data);
}
function delete_post($x){
    $this->db->where('id',$x);
    $this->db->delete('posts');
}
function update_post($x,$data){
    $this->db->where('id',$x);
    $this->db->update('posts',$data);
}
}
// create this function to count posts
function count_posts()
{
    return $this->db->count_all('posts');
}
}
```

7.5 when we now go to the browser and type below URL you will see the below page.  
[http://localhost/CI/index.php/home/get\\_posts/](http://localhost/CI/index.php/home/get_posts/)

