

ເວບໂປຣແກຣມມິງ 2

(Web Programming 2)

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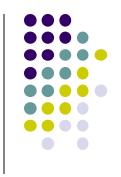
ບົດທີ11

Web Application Framework ແລະ ຄວາມປອດໄພ

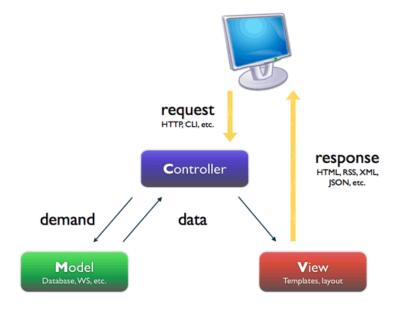


ເນື້ອໃນໂດຍລວມ

- ແນະນຳ MVC ເບື້ອງຕົ້ນ
- Codeigniter Framework
- ການນຳໃຊ້ MVC ດ້ວຍ Codeigniter
- ການເຊື່ອມຕໍ່ຖານຂໍ້ມູນ



Model-view-controller (MVC)
 ເປັນການອອກແບບໂຄງສ້າງຊອບແວ໋
 ເພື່ອໃຫ້ງ່າຍໃນການພັດທະນາ, ຊຶ່ງ
 ແບ່ງຊອບແວ໋ອອກເປັນ 3 ພາກສ່ວນ
 ທີ່ມີການພົວພັນກັນ.





Controller ສາມາດສົ່ງຄຳສັ່ງໄປຍັງ Model ເພື່ອ ປ່ຽນແປງ ຫຼື ແກ້ໄຂຂໍ້ມູນ. ນອກນັ້ນ, ຍັງສາມາດສົ່ງຄຳ ສັ່ງໄປຍັງ View ເພື່ອປ່ຽນແປງການສະແດງຜົນຂໍ້ມູນ ຫຼື ນຳຂໍ້ມູນຈາກ Model ມາສະແດງຢູ່ໃນ View ໄດ້.



- Model ເປັນຊຸດຄຳສັ່ງທີ່ເຮັດວງກຢູ່ເບື້ອງຫຼັງ, ຊຶ່ງ Model ຈະແຈ້ງໃຫ້ Controller ແລະ View ເມື່ອມີການປ່ຽນແປງ ຂໍ້ມູນ.



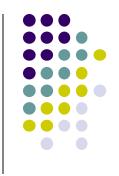
View ນຳໃຊ້ໃນການສະແດງຜົນຂໍ້ມູນຈາກ Model

Codelgniter Framework

• ໂຄງສ້າງໄຟລຂອງ Codeigniter

- -application/
- config/
- -controllers/
- models/
- -views/

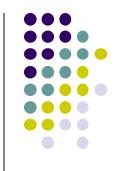




Controller

```
Welcome.php

1 <?php defined('BASEPATH') OR exit('No direct script access allowed');
2
3 class Welcome extends CI_Controller {
4
5  public function index()
6  {
7   $this->load->view('welcome_message');
8  }
9 }
```



• ການສົ່ງຂໍ້ມູນໄປຍັງ View

```
1 <?php defined('BASEPATH') OR exit('No direct script access allowed');
2
3 class Welcome extends CI_Controller {
4
5  public function index()
6  {
7    $data['page_title'] = 'Our first CodeIgniter application';
8    $this->load->view('welcome_message', $data);
9  }
10 }
```



View

```
application/views/welcome_message.php
   <!DOCTYPE html>
   <html>
4
   <head>
     <meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
     <title>Your Website</title>
   </head>
9
   <body>
     <h1>Hello from your CodeIgniter application</h1>
12
     Hello
   </body>
14
   </html>
```



```
$this->load->view('welcome_message',$data);
$data = array('page_title'=>'This is the title of the page',
'another_var' => 6);
```

```
application/views/welcome_message.php

1 <!DOCTYPE html>
2
3 <html>
4
5 <head>
6 <meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
7 <title><?php echo $page_title;?></title>
8 </head>
9
10 <body>
11 <h1>Hello from <?php echo strtolower($page_title);?></h1>
12 Hello
13
14 </body>
15
16 </html>
```



```
■ ແກ້ໄຂໄຟລ
/config/database.php
// roofig/database.php

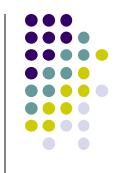
78
79
80
| 'hostname' => 'localhost',
'username' => 'root',
'password' => '',
| 'database' => 'test',
'dbdriver' => 'mysqli',
```

id	name	qty	
1	pepsi	5	
2	candy	10	
3	Milk	20	

```
<?php
class Product_model extends CI_Model
{
function get_product()
    {
        /* all the queries relating to the data we want to retrieve will go in here.
        */
        /* after we've made the queries from the database, we will store them inside a variable
        called $data, and return the variable to the controller */
        return $data;
        }
    }
}</pre>
```



```
1. $q = $this->db->query("SELECT * FROM product WHERE
   id=1 AND name = 'pepsi'");
2. $sql = "SELECT name FROM product WHERE id
  = ? AND name = ?";
  $q = $this->db->query($sql, array(1,"pepsi"));
3. $this->db->where(array('id'=>1,'name'=>'pepsi'));
 // the 'where' clause
  $this->db->select('name'); // the select statement
  $q = $this->db->get('product'); // the table
4. $q=$this->db-
>get('product');
```



id	name	qty	
1	pepsi	5	
2	candy	10	
3	Milk	20	

```
<?php
class Product_model extends CI_Model
function get_product()
$this->db-
>where(array('id'=>1,name'=>pepsi'));
  $this->db->select('id,name');
  $q = $this->db->get('product');
   return $q->result();
```



Controller

<?php

```
if(!defined("BASEPATH")) exit("No direct script access allowed");
class Product extends CI Controller
 public function index()
  //if you decided NOT to autoload the database library you would have to add this
line: $this->load->library('database');
  $this->load->model("product model"); // we load the model that we saved in the
application/models folder, so that the controller will know where to get the methods
from
  $data["product"]=$this->product model->get product(); // we will load the result of
the query inside the $data array having the key 'product'
$this->load->view("product view",$data);// after you stored the query results inside
the $data array, you will have to send the array to the view which will display it
inside the browser.
```



```
<html>
 <head>
  <title>Product</title>
 </head>
 <body>
  <h1>Product</h1>
  <?php
  /* first we will make sure we have data to display. $users variable is actually the $data['users']
that we sent from the controller to the view... */
  if(!empty($product))
   foreach($product as $row) // $row is an object.
     echo "ID: ".$row->id."; Name: ".$row->name."
  </body>
</html>
```

ຄວາມປອດໄພຂອງເວບໄຊ



- ຄວາມປອດໄພຂອງ Framework
 - ຄວາມປອດໄພ (Security) ເປັນໜຶ່ງໃນບັນດາອົງປະກອບ ທີ່ສຳຄັນຂອງລະບົບ, ໂດຍສະເພາະແມ່ນການພັດທະນາ ລະບົບເພື່ອຄວບຄຸມ ແລະ ບໍລິຫານທຸຖລະກິດໃດໜຶ່ງ.
 - ຄຸນລັກສະນະຂອງ Framework ຈະມີຄວາມປອດໄພ ແລະ ໂຄງສ້າງທີ່ເປັນມາດຕະຖານໃນການປ້ອງກັນຈຸດອ່ອນ ໃນການຂຸງນໂປຣແກຣມໄວ້ແລ້ວ ເຊັ່ນວ່າ: ການປ້ອງກັນ ການໂຈມຕີດ້ວຍ SQL Injection, XSS ແລະ ອື່ນໆໂດຍ ພື້ນຖານໄວ້.

ຂໍ້ມູນອ້າງອີງ



- [1] http://codesamplez.com/codeigniter-tutorials
- [2] ບັນຊາ ປະສີລະເຕສັງ. ພັດທະນາເວບແອັບພລິກເຄຊັນ ດ້ວຍ PHP ຮ່ວມກັບ MySQL ແລະ jQuery. ຊີເອສ, ໄທ. ໜ້າ 126-183. 2557.
- [3] https://dev.mysql.com/doc/refman/8.0/en/create-procedure.html



ປາກ ແອະ ພອກ

ຂອບໃຈ