Basic Application using Zend Framework

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Introduction:

Once upon a time, we develop web application using raw level php code. But when the application expand it becomes unmanageable. Now it is a trend to develop web application using a framework. And I found Zend Framework is one of the best framework among all. Here I given a short tutorial to develop web application using Zend framework. I assume that, the reader knows what is MVC, how to setup apache server, mysql, php, how to enable mod_rewrite etc. This is a basic tutorial and for complete reference download manual from http://framework.zend.com/

Directory Structure:

First download the framework from http://framework.zend.com/. Current version is 1.5.2. After download, unzip the file.

Suppose your application name: mysite. Then setup the directory structure like this

```
mysite/
/application
/library
/public
```

Here library is the folder copied from unzipped folder of Zend framework. In library folder you'll see a folder named Zend and it contains all the essentials of this framework.

Now structure your application folder

```
application/
/config
/controllers
/models
/views/scripts
/layouts

public/
/css
/js
/images
```

For security reason, you should place the resource files like images, css, js in separate. Now create a file config.ini and place it in your mysite/application/config folder.

Filename: config.ini

Here we provide the hostname of our site and database configuration. If you don't need database, just remove from db.adapter to db.params.dbname from config.ini

Now create a .htaccess file and place it in your mysite folder.

```
Filename: .htaccess
# Rewrite rules for Zend Framework
RewriteEngine on
RewriteCond %{REQUEST_FILENAME} !-f
RewriteRule .* index.php
# Security: Don't allow browsing of directories
Options -Indexes
```

Now create an index.php file and place it to your mysite folder.

```
Filename: index.php <?php
```

```
error reporting(E ALL);
   ini_set('display_errors', 1);
   // directory setup and class loading
   set_include_path('.' . PATH_SEPARATOR . 'library/'
         . PATH_SEPARATOR . 'application/models'
         PATH_SEPARATOR 'application/config'
         . PATH SEPARATOR . get include path());
   include "Zend/Loader.php";
   Zend Loader::registerAutoload();
   //load configuration
            = new Zend_Config_Ini('application/config/config.ini', 'general');
   $config
   $registry
                       Zend Registry::getInstance();
   $registry->set('config', $config);
   //setup database
                    = Zend Db::factory($config->db);
   Zend Db Table::setDefaultAdapter($db);
   $registry->set('db', $db);
   // setup controller
    $frontController = Zend Controller Front::getInstance();
   $frontController->throwExceptions(true);
   $frontController->setControllerDirectory('application/controllers');
   Zend Layout::startMvc(array('layoutPath'=>'application/layouts'));
   // run!
   $frontController->dispatch();
?>
```

Zend Framework is designed such that its files must be on the include path. By set_include_path(.....) we include some common paths. And for this reason, include "Zend/Loader.php" automatically include Loader.php from /library folder.

Zend_Loader::registerAutoload() automatically load all Zend Framework files as we instantiate them.

Zend_Registry::getInstance() returns a registry object. We can store any value, object in it. It is like a global scope. And in anywhere in our model or controller we can simply retrive the value by Zend_Registry::get('variable_name')

Now its the time to create a controller file. And put it to the controllers folder

```
filename: IndexController.php
class IndexController extends Zend_Controller_Action{
        function init(){
             //setup the common tasks
       function indexAction(){
                                            = "My Site";
            $this->view->title
        }
       function showAction(){
                                            = "My Site data";
            $this->view->title
            $this->view->data
                                                array('name'=> Mahmud, 'work'=> "BD");
        }
}
To create an Action Controller remember:

    Extend Zend_Controller_Action

• Class name ends in 'Controller'
     IndexController
     BlogController
To create a Controller Action remember:
• Public methods ending in 'Action'
    barAction()
    indexAction()
```

Now the time to create view files.

Create a folder named index and put it to /views/scripts/. So the path is: /views/script/index/

If we create a controller named BlogController , we have to create view folder like this way and the folder name will be blog and have to put in /views/scripts/blog/

In /views/script/index/, create files named index.phtml and show.phtml

For common html code, like common header, footer or navigation bar, we have to create a template in

/application/layouts/

Now create a file layout.phtml and put it in /application/layouts/layout.phtml

Now in your browser, run this url. http://localhost/mysite/index You'll see only title of the application is shown.

Now run this url: http://localhost/mysite/index/show You'll see the data and title.

So what happened when you run localhost/mysite/index It points to IndexController and index action (default action)

In the second case, in points IndexController and show action.

After completing the action method of controller it automatically render the corresponding view file. For showAction() the corresponding view file is /views/scripts/index/show.phtml

And the output is inserted in the /application/layouts/layout.phtml in <?php echo \$this->layout()->content; ?>

If you want to create a model class that handles all the database operation. Here is an example. Create a file Test.php and put it in application/models/Test.php

At first create a database named: test. Now create a table named temp, temp table contains only id,

name

```
create table temp{
    id int not null auto_increment,
    name varchar(40),
    primary key (id)
}
```

Insert some data.

Now in your IndexController, showAction() method write this

```
$test = new Test();
$result = $test->show();
echo "";
print_r($result);
```

There are many ways to handling database. I've shown one of these. Hope this will be helpful.

Conclusion: I compose this tutorial within very short time. I didn't explain everything in details for my busy work. For complete reference download the documentation from http://framework.zend.com/