Bootstrap & Codeigniter

CI and Bootstrap Assignment

K.A.H.C.Kumarasinghe | 18000878 |

What is codeigniter and bootstrap?

CodeIgniter is PHP driven framework but it's not a PHP substitute. Bootstrap is the most popular css framework for developing responsive and mobile-first websites.

Implementation of CRUD operation.

1. First we should create a database in localhost using PhPMyAdmin.
2. Next build a controller inside the application/controller folder. To create a controller I create a file called member_details.php inside the above folder.
3. Inside that file CI_Controller class must be extended and controller name and file name should be the same.
4. Next create a model which is the class designed to work with information in the database. It must be create inside the application/models directory. Here I create member_details_model.php inside above directory.
5. Then connect the database with codeigniter by editing application/config/database.php file.
6. Next we should save data in the database. For this create a file in view directory name as member_details_create.php.

7. After that create a function called savedata() inside the controller.


```php
<?php
class member_details extends CI_Controller
{
    public function __construct()
    {
        parent::__construct();

        $this-> load-> database();
        $this-> load-> helper('url');
        $this-> load-> model('member_details_model');
    }

    public function index()
    {
        $this-> load-> view('Home');
    }

    public function savedata()
    {
        $this-> load-> view('member_details_create');

        if($this-> input-> post('submit'))
        {
            $member_id = $this-> input-> post('member_id');
            $first_name = $this-> input-> post('first_name');
            $last_name = $this-> input-> post('last_name');
            $ign = $this-> input-> post('ign');
            $contact_number = $this-> input-> post('contact_number');
            $primary_game = $this-> input-> post('primary_game');

            $this-> member_details_model-> saverecords($member_id, $first_name, $last_name, $ign, $
                contact_number, $primary_game);

            echo "Records Saved Successfully";
            redirect("member_details/savedata");
        }
    }
```

8. Then create a function called saverecord() inside the model where the query would executed.


```php
<?php
class member_details_model extends CI_Model
{
    public function saverecords($member_id, $first_name, $last_name, $ign, $contact_number, $primary_game)
    {
        $query="insert into member_details values('$member_id', '$first_name', '$last_name', '$ign', '$
            contact_number', '$primary_game')";

        $this-> db-> query($query);
    }
}
```

9. To retrieve date in the database create 3 functions called displaydata(), displaydelete(), displayupdate() inside the controller and create a function called display_users()inside the member_details_model.php


```php
        public function displaydata()
        {
            $result['data'] = $this-> member_details_model-> display_users();
            $this-> load-> view('member_details_display', $result);
        }

        public function displaydelete()
        {
            $result['data'] = $this-> member_details_model-> display_users();
            $this-> load-> view('member_details_delete', $result);
        }

        public function displayupdate()
        {
            $result['data'] = $this-> member_details_model-> display_users();
            $this-> load-> view('member_details_update', $result);
        }
```

```php
        public function display_users()
        {
            $query = $this-> db-> query("select * from member_details");
            return $query -> result();
        }
```

10. To delete date in the database create a function called deletedata() inside the controller.

```php
public function deletedata()
{
    $Member_ID = $this-> input-> get('Member_ID');
    $this-> member_details_model-> delete_users($Member_ID);
    redirect("member_details/displaydelete");
}
```

11. To update data in the database create a function called updatedata() inside the controller.

```php
public function updatedata()
{
    $Member_ID = $this-> input-> get('Member_ID');
    $result ['data'] = $this-> member_details_model-> displayusersbymember_id($Member_ID);
    $this-> load-> view('member_details_update_form', $result);

    if($this-> input-> post('update'))
    {
        $member_id = $this-> input-> get('Member_ID');
        $first_name = $this-> input-> post('first_name');
        $last_name = $this-> input-> post('last_name');
        $ign = $this-> input-> post('ign');
        $contact_number = $this-> input-> post('contact_number');
        $primary_game = $this-> input-> post('primary_game');

        $this-> member_details_model-> update_users($member_id, $first_name, $last_name, $ign, $
            contact_number, $primary_game);
        echo "Records Saved Successfully";
        redirect("member_details/displaydata");
    }
}
```

12. Then create a functions called update_users() inside the member_details_model.php

```php
public function update_users($Member_ID, $First_Name, $Last_Name, $IGN, $Contact_Number, $Primary_Game)
{
    $query = $this-> db-> query("update member_details SET first_name='$First_Name', last_name='$Last_Name
        ', ign='$IGN', contact_number='$Contact_Number', primary_game='$Primary_Game' where Member_ID='".$
        Member_ID."'");
}
```

13. Then create a function inside the member_details_model.php named as delete_users($Member_ID).

After completing above steps we can save, delete, update and retrieve data.

14. To generate pdf report create new library called "pdf_Library.php", new controller called "pdf_Controller" and new model called "pdf_Model".

```php
<?php
class pdf_Controller extends CI_Controller{
    public function __construct(){
        parent:: __construct();
        $this-> load-> library('pdf_Library');
        $this-> load-> model('member_details_model');
    }
    public function generate_pdf_report(){
        $data['member_details'] = $this-> member_details_model-> select_members();
        $this-> load-> view('members_report', $data);
    }
}
```

```php
<?php
require_once dirname(__file__).'/tcpdf/tcpdf.php';
class pdf_Library extends TCPDF{
    public function __construct(){
        parent:: __construct();
    }
}
```

Lessons that I learn

- Get familiar with the codeigniter and bootstrap framework.
- Get clear idea about what is controller? What is model? And what is view?
- How to implement CRUD operations in codeigniter.
- How to add bootstrap to the codeigniter.
- How we connect controller and model each other.
- How to view the page on the web browser.
- How to generate report in pdf format using data in databse.

Problem that I faced

1. Error - Call to undefined function redirect()

   After adding $this->load->helper('url') into the controller the error gets solved.

   An uncaught Exception was encountered

   Type: Error

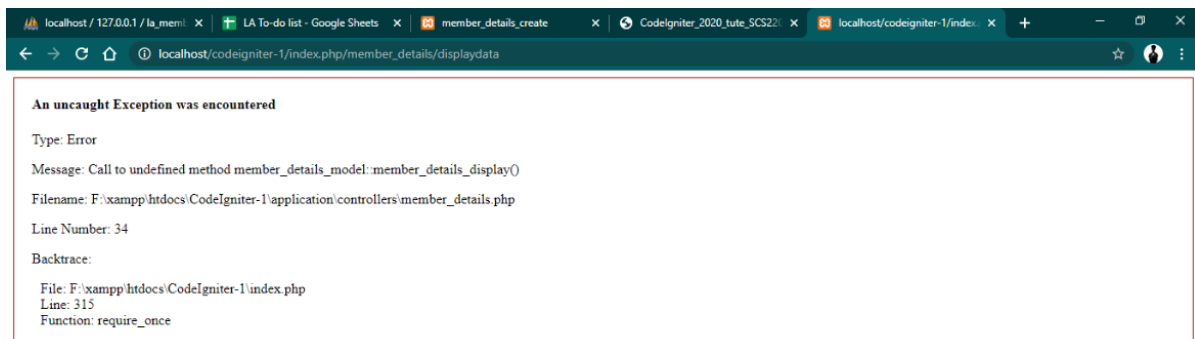   Message: Call to undefined function redirect()

   Filename: F:\xampp\htdocs\CodeIgniter-1\application\controllers\member_details.php

   Line Number: 28

   Backtrace:

   File: F:\xampp\htdocs\CodeIgniter-1\index.php
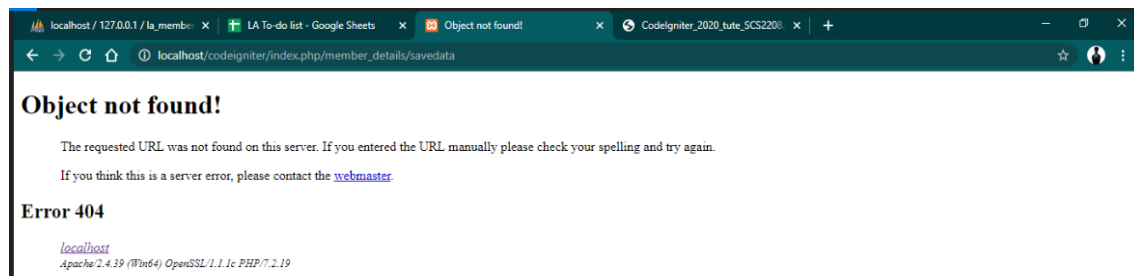   Line: 315
   Function: require_once

2. parseError- syntax errors

3. Error – Undefined Variable

4. Error- call to undefined method in member_details_model.php

   An uncaught Exception was encountered

   Type: Error

   Message: Call to undefined method member_details_model::member_details_display()

   Filename: F:\xampp\htdocs\CodeIgniter-1\application\controllers\member_details.php

   Line Number: 34

   Backtrace:

   File: F:\xampp\htdocs\CodeIgniter-1\index.php
   Line: 315
   Function: require_once

5. Database errors :

   A Database Error Occurred

   Unable to connect to your database server using the provided settings.

   Filename: F:/xampp/htdocs/CodeIgniter-1/system/database/DB_driver.php

   Line Number: 436

6. 404- Object Not Found!

   Object not found!

   The requested URL was not found on this server. If you entered the URL manually please check your spelling and try again.
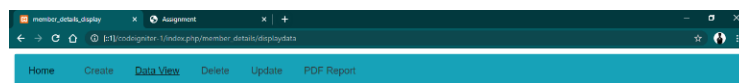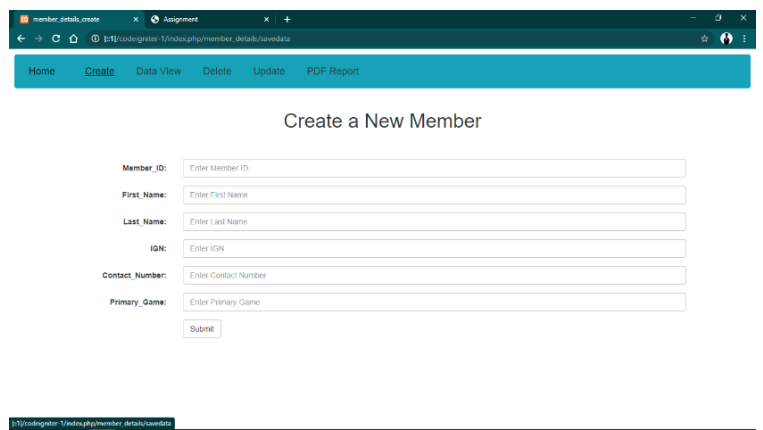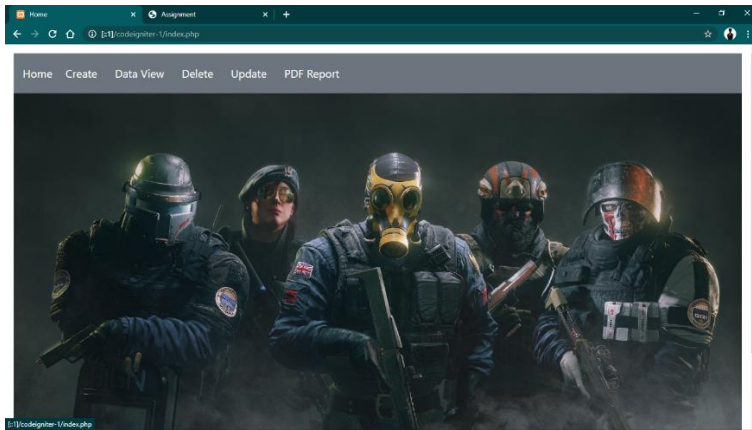
   If you think this is a server error, please contact the webmaster.

   Error 404

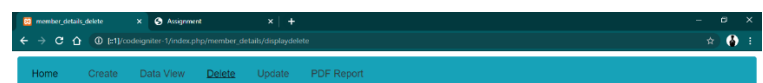   localhost
   Apache/2.4.39 (Win64) OpenSSL/1.1.1c PHP/7.2.19

7. When creation report I got the errors in creating library, controller and model. To solve those errors I followed some tutorial videos.

Screenshots of My Application

-END-