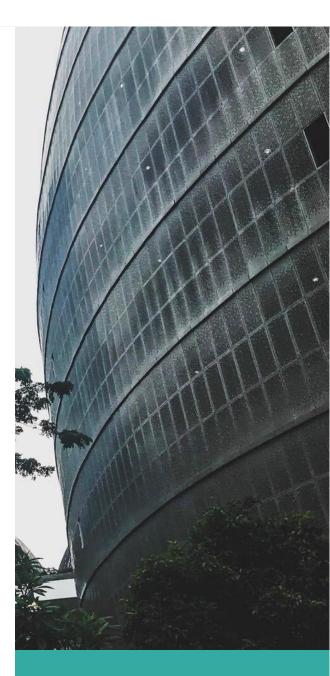
## **MODUL PRAKTIKUM**

IS556 – WEB DESIGN AND DEVELOPMENT PROGRAM SARJANA S1 SISTEM INFORMASI FAKULTAS TEKNIK DAN INFORMATIKA



### PROGRAM STUDI SISTEM INFORMASI FAKULTAS TEKNIK DAN INFORMATIKA UNIVERSITAS MULTIMEDIA NUSANTARA

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# MODULE 10 WEB DEVELOPMENT FRAMEWORK - CODEIGNITER



#### **DESCRIPTION**

Web application development using certain framework: Codelgniter.

#### **WEEKLY LEARNING OUTCOMES (SUB-LEARNING OUTCOMES)**

1. SUB-CLO 11: Students are able to build web application using certain framework (C6)

#### **PRACTICAL SUPPORT**

Visual Studio Code

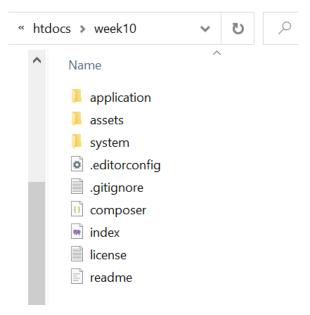
#### **STEPS:**

In this exercise, you will modify the last week's exercise with the concept of MVC (Model-View-Controller) using Codelgniter. In this exercise, we use Codelgniter version 3.1.13.

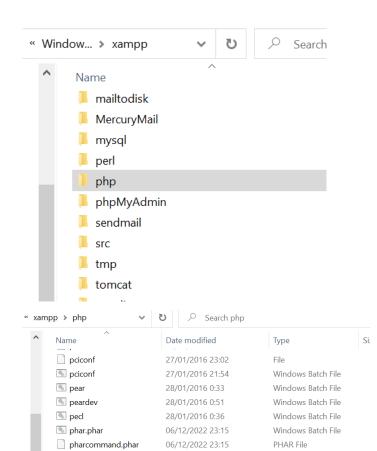
#### Task 1: Installation

You don't need to install CodeIgniter because we use the manual way. Extract the zip file named bcit-ci-CodeIgniter-3.1.13-0-gbcb17eb from the supported file and save into xampp → htdocs folder, then rename to week10.

You will see the structure of the Codelgniter like the figure below.



2. Before starting the Apache and MySQL in xampp-control, open the folder named **php** in the xampp folder. Search for a file named **php.ini** and open using text editor or Notepad.



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Find this snipped code ; extension=intl and remove the ";". After that, save and close the file.

Application

LIB File

Configuration settings

INI-DEVELOPMENT File

INI-PRODUCTION File

Application extension

Application extension

```
extension=bz2
extension=curl
;extension=ffi
;extension=ftp
extension=fileinfo
;extension=gd
extension=gettext
;extension=gmp
extension=intl
;extension=imap
;extension=ldap
extension=mbstring
extension=exif
                    ; Must be af
extension=mysqli
;extension=oci8_12c ; Use with
```

Php php

php

php.ini-development

php.ini-production
php8apache2\_4.dll

php8embed.lib

php8phpdbg.dll

- 3. Now, you can start the Apache and MySQL.
- Back to the Codelgniter file (now week10), go to application → config, then open the file config.php
   Set the base\_url with adding the path https://localhost/week10/



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

/*

/*

Base Site URL

URL to your CodeIgniter root. Typically this will be your base URL,
WITH a trailing slash:

http://example.com/

WARNING: You MUST set this value!

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

If you need to allow multiple domains, remember that this file is still a PHP script and you can easily do that on your own.

*/
$config['base_url'] = 'https://localhost/week10/';</pre>
```

Save the file, then open the browser and direct to <a href="https://localhost/week10/">https://localhost/week10/</a>

5. If an error occurs, go to the folder week10 → system → core, and add this snipped code #[\AllowDynamicProperties] to the files URI.php, Router.php, Loader.php, Controller.php. Go to system → database, open the DB\_driver.php and add the snipped code too.

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#### **Task 2: Database Configuration**

We will use the same database as the last week's exercise. So, you just need to configuration the database.

- 1. Go to week10  $\rightarrow$  application  $\rightarrow$  config, open the file **database.php**.
- 2. Set the hostname, root, password, and database name. Don't forget to save the file.

#### Task 3: Model-View-Controller

1. Go to application → controllers, create a php file named **Users.php** in this folder.



```
W Users.php X
C: > xampp > htdocs > week10 > application > controllers > ♥ Users.php
       class Users extends CI_Controller {
               public function __construct()
                        parent::__construct();
                        $this->load->model('user_model');
                        $this->load->helper('url_helper');
               public function index()
                   $this->load->view('templates/header');
                   $this->load->view('users/login');
                   $this->load->view('templates/footer');
               public function login_action()
               $username = $this->input->post("email");
               $password = $this->input->post("password");
               $data = $this->user_model->get_login($username,$password);
               foreach ($data as $val):
                   if ($val['user_role'] == 'admin'){
                        $this->login_admin();
                   }else if($val['user_role'] == 'member'){
                    }else if($val['user_role'] == ''){
                       $this->load->view('templates/header');
                        $this->load->view('users/login');
                        $this->load->view('templates/footer');
               endforeach;
               public function login_admin()
               $data['user_data'] = $this->user_model->get_users();
               $data['title'] = 'User Data';
               $this->load->view('templates/header');
               $this->load->view('users/login_admin', $data);
$this->load->view('templates/footer');
               public function login_member()
                    //code here
 57
```

2. Go to application → models, create a php file named **User model.php** in this folder.

- 3. Go to application → views, copy-paste the files **footer.php** and **header.php** into the folder **templates**.
- 4. In the folder views, create a folder named "users", then put the files **login.php**, **login\_admin.php**, and **login\_member.php** into the folder.
- 5. Re-open the file Users.php in the folder controller, modify the comment section "code here" to add a condition if logged in as a "member".

#### **SUBMISSION**

- 1. Submit files consisting of:
  - a. File project (include HTML file and all used objects (image, dll)).
- 2. Compress file (.zip) and named **COURSECODE\_CLASS\_NIM\_NAME\_WEEK KE-XX.zip** (example: IS556\_A\_13110310017\_Monika Evelin Johan\_Week-01.zip).

#### **REFERENCES**

- Robins, J. N. (2018). Learning Web Design: A Beginner's Guide to HTML, CSS, JavaScript, and Web Graphics 5th Ed. O'Reilly Media.
- Adrian W. West, Steve Prettyman Practical PHP 7, MySQL 8, and MariaDB Website Databases\_ A Simplified Approach to Developing Database-Driven Websites (2018, Apress) - libgen.lc
- https://codeigniter.com/