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Tugas 10 Framework Pemrograman Berbasis Web

Instalasi CI4 menggunakan composer lewat terminal cmd laragon

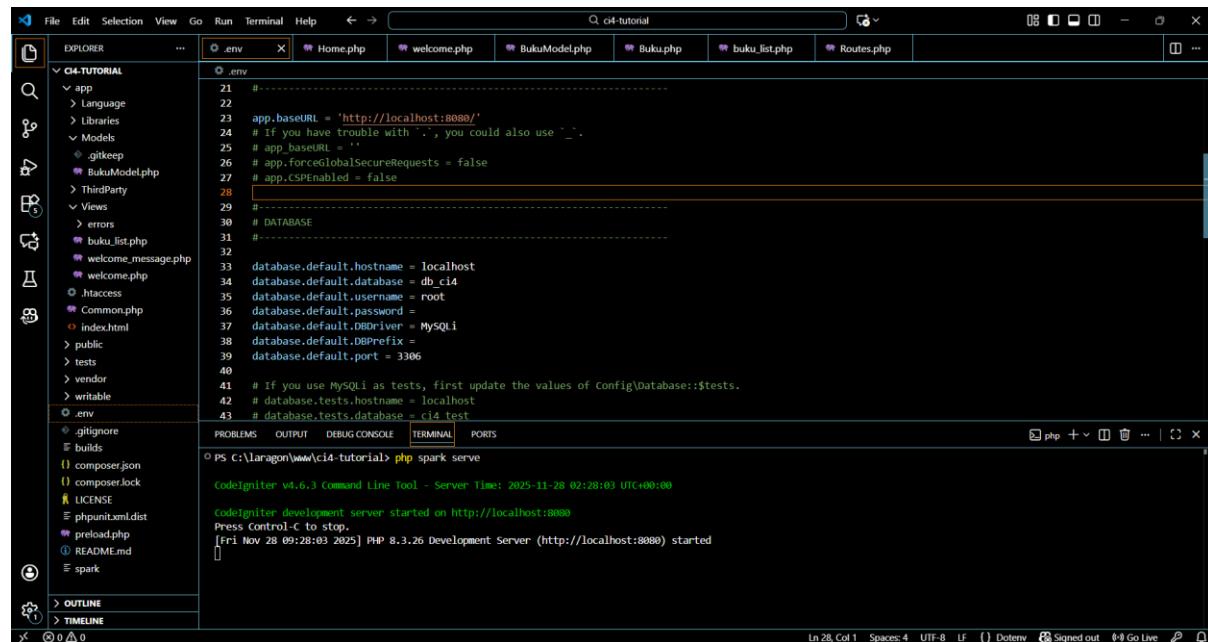


```
C:\laragon\www
$ composer create-project codeigniter4/appstarter ci4-tutorial
Creating a "codeigniter4/appstarter" project at "./ci4-tutorial"
Installing codeigniter4/appstarter (v4.6.3)
- Downloading codeigniter4/appstarter (v4.6.3)
  - Installing codeigniter4/appstarter (v4.6.3): Extracting archive
Created project at C:\laragon\www\ci4-tutorial
Loading composer repositories with package information
Updating dependencies
Lock file operations: 33 installs, 0 updates, 0 removals
- Locking codeigniter4/framework (v4.6.3)
- Locking faker/faker (v1.24.1)
- Locking lminas/lminas-escaper (2.18.0)
- Locking mike4ty9/vfsstream (v1.6.12)
- Locking myclabs/deep-copy (1.13.4)
- Locking nesbot/carbon (v2.67.0)
- Locking phar-io/manifest (2.0.4)
- Locking phar-io/version (3.2.1)
- Locking phpuunit/php-code-coverage (10.1.16)
- Locking phpuunit/php-file-iterator (4.1.0)
- Locking phpuunit/php-invoker (4.0.0)
- Locking phpuunit/php-text-template (3.0.1)
- Locking phpuunit/php-timer (6.0.0)
- Locking phpuunit/phpunit (10.5.58)
- Locking psr/log (v2.0.2)
- Locking sebastian/global-state (6.0.2)
- Locking sebastian/object-enumerator (3.0.2)
- Locking sebastian/php-code-coverage (3.0.0)
- Locking sebastian/code-unit-reverse-lookup (3.0.0)
- Locking sebastian/comparator (5.0.4)
- Locking sebastian/complexity (3.2.0)
- Locking sebastian/diff (5.1.1)
- Locking sebastian/environment (6.1.0)
- Locking sebastian/exporter (3.0.0)
- Locking sebastian/global-state (6.0.2)
- Locking sebastian-lines-of-code (2.0.2)
- Locking sebastian/object-enumerator (3.0.0)
- Locking sebastian/object-reflector (3.0.0)
- Locking sebastian/recursion-context (5.0.1)
- Locking sebastian/type (4.0.0)
- Locking sebastian/version (4.0.1)
- Locking symfony/deprecation-contracts (v3.6.0)
- Locking theser/tokenizer (1.3.1)

Writing lock file
Installing dependencies from lock file (including require-dev)
Package operations: 33 installs, 0 updates, 0 removals
- Downloading psr/log (3.0.2)

cmd.exe
```

File .env dan menjalankan server CI4 di vscode



```
c:\laragon\www\ci4-tutorial
$ .env
# -----
# If you have trouble with '.', you could also use '_'.
app.baseURL = 'http://localhost:8080/'
# app.baseURL =
# app.forceGlobalSecureRequests = false
# app.CSPEnabled = false
# -----
# DATABASE
# -----
database.default.hostname = localhost
database.default.database = db_ci4
database.default.username = root
database.default.password =
database.default.DBDriver = MySQL
database.default.DBPrefix =
database.default.port = 3306
# If you use MySQL as tests, first update the values of config\Database::$tests.
# database.tests.hostname = localhost
# database.tests.database = ci4_test

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS c:\laragon\www\ci4-tutorial> php spark serve
CodeIgniter v4.6.3 Command Line Tool - Server time: 2025-11-28 02:28:01 UTC+00:00
CodeIgniter development server started on http://localhost:8080
Press Control-C to stop.
[Fri Nov 28 09:28:03 2025] PHP 8.3.26 Development Server (http://localhost:8080) started
```

Membuat controller Hello

The screenshot shows the VS Code interface with the following details:

- EXPLORER** sidebar: Shows the project structure under "C4-TUTORIAL".
- EDITOR**: The file "Hello.php" is open, showing the following code:

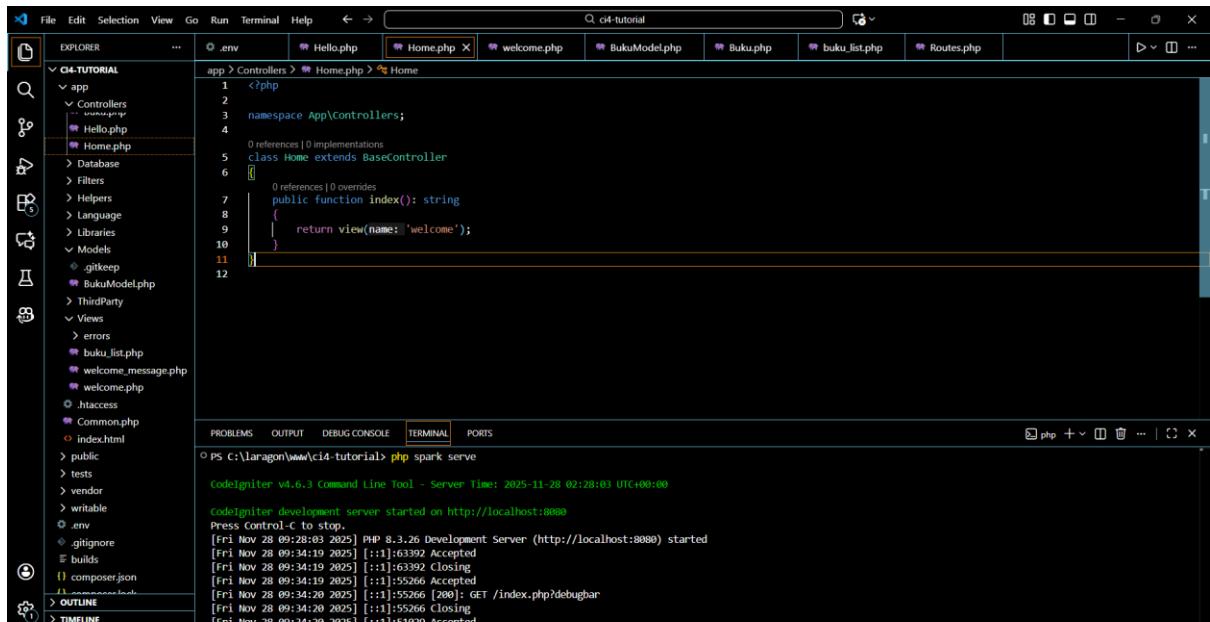
```
<?php
namespace App\Controllers;
class Hello extends BaseController
{
    public function index(): string
    {
        return "Hello dari Controller C4!";
    }
}
```
- TERMINAL**: The command `php spark serve` is running, outputting the logs for the CodeIgniter development server.
- STATUS BAR**: Shows the current file is "Hello.php", and other files like ".env", "Home.php", "welcome.php", "BukuModel.php", "Buku.php", "buku_list.php", and "Routes.php" are listed.

Membuat welcome.php, controller Home, dan routes

The screenshot shows the VS Code interface with the following details:

- EXPLORER** sidebar: Shows the project structure under "C4-TUTORIAL".
- EDITOR**: The file "welcome.php" is open, showing the following code:

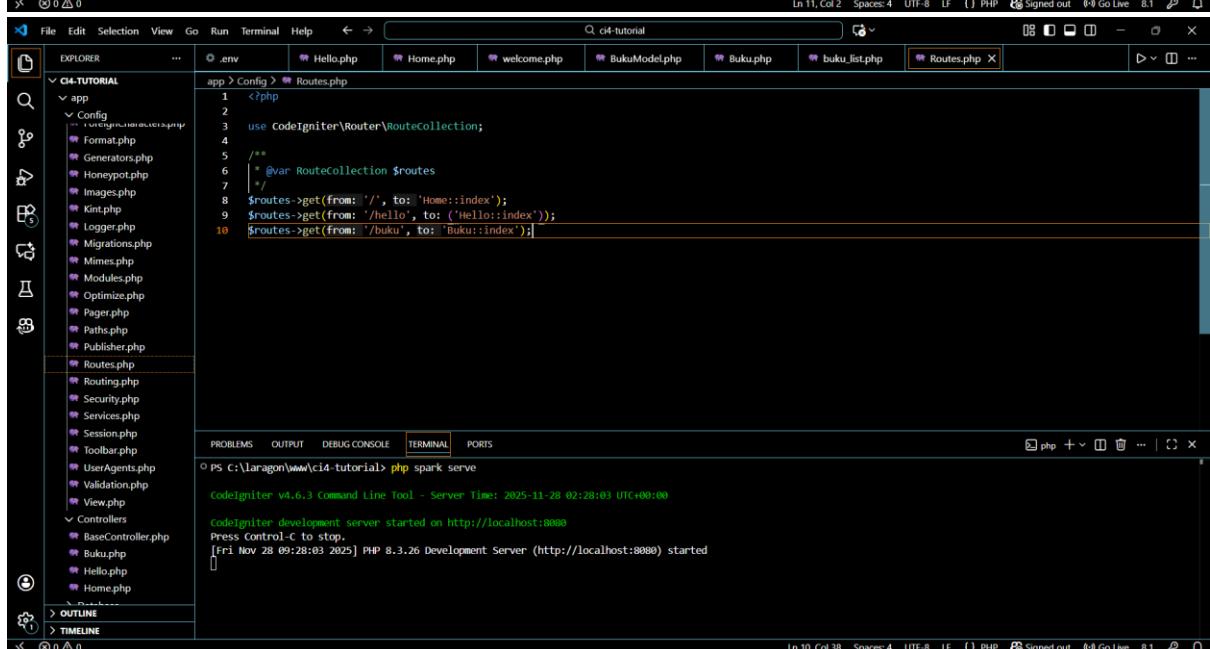
```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Document</title>
</head>
<body>
<h1>Selamat datang di CI4!</h1>
<a href="buku">CRUD Buku</a>
</body>
</html>
```
- TERMINAL**: The command `php spark serve` is running, outputting the logs for the CodeIgniter development server.
- STATUS BAR**: Shows the current file is "welcome.php", and other files like ".env", "Hello.php", "Home.php", "BukuModel.php", "Buku.php", "buku_list.php", and "Routes.php" are listed.



```

<?php
namespace App\Controllers;
class Home extends BaseController
{
    public function index(): string
    {
        return view('name: welcome');
    }
}

```

```

use CodeIgniter\Router\RouteCollection;
/**
 * @var RouteCollection $routes
 */
$routes->get('/', 'Home::index');
$routes->get('/hello', 'Hello::index');
$routes->get('/buku', 'Buku::index');

```

Membuat BukuModel.php, Buku.php, dan buku_list.php

Screenshot 1: Code Editor - Buku.php

```

    <?php
    namespace App\Controllers;
    use App\Models\BukuModel;
    class Buku extends BaseController
    {
        public function index(): string
        {
            $model = new BukuModel();
            $data['buku'] = $model->findAll();
            return view('name: 'buku_list', data: $data);
        }
    }

```

Screenshot 2: Code Editor - BukuModel.php

```

    <?php
    namespace App\Models;
    use CodeIgniter\Model;
    class BukuModel extends Model
    {
        protected $table = 'buku';
        protected $allowedFields = ['judul', 'penulis'];
    }

```

The screenshot shows the Visual Studio Code interface. The code editor displays a PHP file named `buku.list.php` which contains the following code:

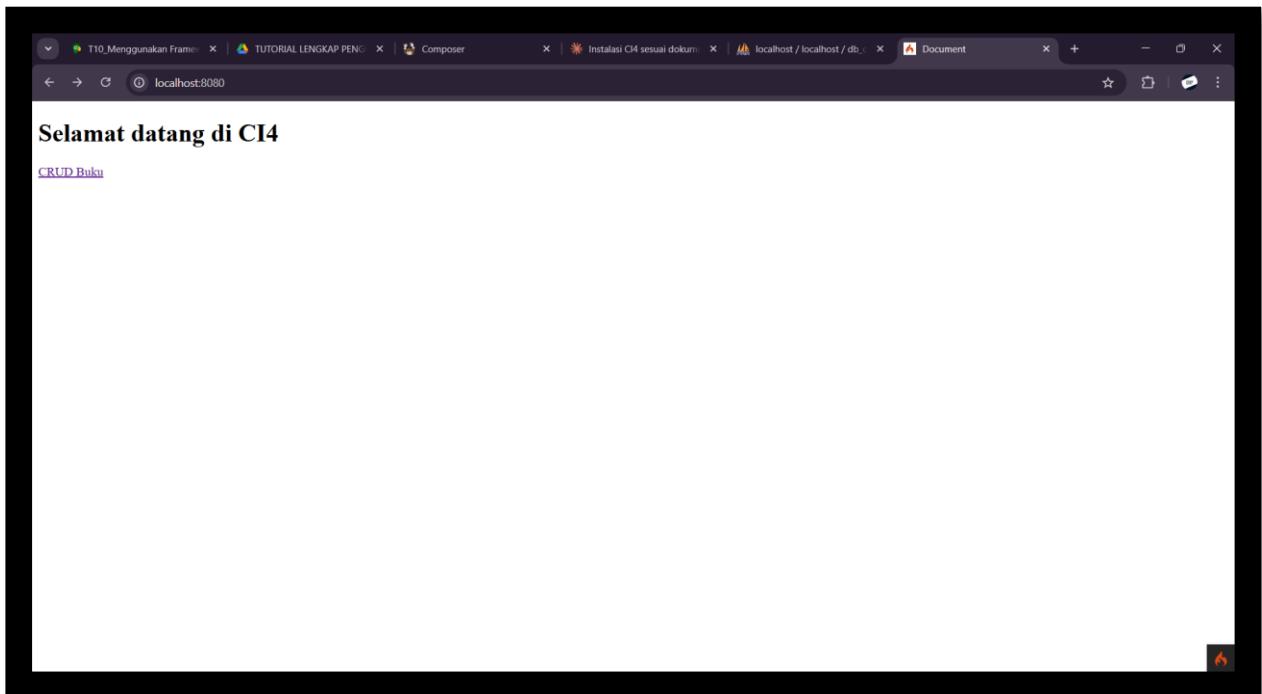
```

1 <!DOCTYPE html>
2 <html lang="en">
3 
4 <head>
5   <meta charset="UTF-8">
6   <meta name="viewport" content="width=device-width, initial-scale=1.0">
7   <title>Document</title>
8 </head>
9 
10 <body>
11   <table border="1">
12     <thead>
13       <tr>
14         <th>Judul</th>
15         <th>Penulis</th>
16     </thead>
17     <tbody>
18       <?php foreach ($buku as $b): ?>
19         <tr>
20           <td><?= $b['judul'] ?></td>
21           <td><?= $b['penulis'] ?></td>
22         </tr>
23     </tbody>
24   </table>

```

The terminal tab shows the output of running `spark serve` in the command line, indicating the application is listening on port 8080.

Hasil run di localhost:8080



A screenshot of a web browser window titled "localhost:8080/buku". The page displays a simple table with two columns: "Judul" (Title) and "Penulis" (Author). The data is as follows:

Judul	Penulis
Laskar Pelangi	Andrea Hirata
Bumi Manusia	Pramoedya Ananta Toer
Perahu Kertas	Dee Lestari

A screenshot of a web browser window titled "localhost:8080/hello". The page displays a single line of text: "Hello dari Controller CI4!"

*Mohon maaf tidak pakai css karena waktunya mepet