

# CodeIgniter4 for Beginners Cheat Sheet

by Tính Vy (tinhvy) via cheatography.com/132374/cs/26789/

#### **TOPIC 1: GETTING STARTED**

#### 1.1. Installation

> Download Composer

#### composer

> Using Composer

#### 1.2. Prepare Running Your App (cont)

Step 3: Edit the hosts file >

The hosts file is used to map domain names to IP addresses. You car this file at  $C: \forall s \in S$  yst em3  $2 \in S$  windows) or /etc/hosts (on Linux or macOS). Add the following line to hosts file:

127.0.0.1 yourap pna me.l ocal

#### Finally ~

composer create -pr oject codeig nit er4 /ap pst arter your

ap pname

Restart Apache in the XAMPP control panel.

#### Remove public/index.php/ from URL

Step 1: Change the App.php file

# 1.2. Prepare Running Your App

#### Configure CI4 to display error messages

> Root/env

Change env to .env

> Root/.env

```
# ENVIRO NMENT
CI ENV IRO NMENT = develo pment
```

#### Hosting with Apache

#### Virtual Hosting

Step 1: In xamp|apache|conf|httpd.conf ~

```
# Virtual hosts
Include conf/e xtr a/h ttp d-v hos ts.conf
```

#### Step 2: xamp|apache|conf|extra|httpd-vhosts.conf >

Open projec t\_n ame /ap p/C onf ig/ App.php\*

## changes are as follows:

```
public $baseURL = 'http: //l oca lho st: 8080';
to
public $baseURL = 'http: //l oca lho st/ you r_p ro
    na me/';
```

## And the second change in the app.php file:

```
public $uriPr otocol = 'REQUE ST_ URI';
to
public $uriPr otocol = 'PATH_ INFO';
```

Step 2: Copy index.php and .htaccess

Go to public directory

Copy index.php and .htaccess

То

codeigniter app root directory

Step 3: Change the index.php



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#### 1.2. Prepare Running Your App (cont)

```
In the root project directory, open <code>index.php</code> and edit the following line:
```

```
$pathsPath = FCPATH . '../ap p/C onf ig/ Pat hs.
p hp';
```

#### change TO

```
$pathsPath = FCPATH . 'app/C onf ig/ Pat hs.p hp
'.
```

If the above solution is not work for; so you can configure your apache server; as shown below:

In the apache server, the **mode rewrite** is already on. But some default values need to be changed on /etc/a pac he2 /ap a ch e2.conf file. Following are changes,

#### First, find

```
<Di rectory /var/www/>
Options Indexes FollowSymLinks
AllowO verride None
Require all granted
</D ire cto ry>
```

And change AllowO verride None to All and save.

Then enable mode rewrite

Then restart the server,

## 1.3. Run the application in a browser

#### Local Development Server

```
php spark serve
```

#### Virtual Hosting

```
Ex: yourap pna me.l oc alhost
```

## Removing the index.php

```
http: //l oc a l ho st/ yo u r _p roj ec t
_ na me/
```

## **TOPIC 2: VIEW LAYOUTS**

How to integrate an admin layout into Codelgniter 4 so that it is separate from the public layout.

## 2.1. Create a folder for admin layout

In the app/Views folder,

Create a new folder named admin to hold the layout files for the admin page.

For example: app/Vi ews /ad min /la you t.php.

## 2.2. Create a layout file for the admin page

```
<!--
app/Vi ews/ad min /layou t.php
In the admin folder, create a generic layout file
for your admin page.
For example: app/Vi ews /ad min /la you t.php.
In this file, you can define layout elements such
as header, menu, footer,
and content.
For example:
<!D OCTYPE html>
<html lang="e n">
<he ad>
       <meta charse t="U TF- 8">
       <ti tle >Admin Layout </t itl e>
</h ead>
<bo dy>
       <he ade r>
              <h1 >Admin Header </h 1>
       </h ead er>
       <na v>
               <111>
                       ><a href="# " >Da -
shb oar d</ a>
```



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#### 2.2. Create a layout file for the admin page (cont)

```
> <|i><a href="#">Users</a>
<a href="#">Settings</a>

</nav>
<main>
<php echo $this->renderSection('content') ?>
</main>
<footer>
Admin Footer
</footer>
</body>
</html>
```

#### 2.3. Create view files for each admin page

#### app\Views\admin\dashboard.php

## 2.4. Create routes for admin page

#### app/Config/Routes.php

```
$route s-> gro up( 'ad min',
    ['name space' => 'App\C ont rol ler s\A dmin'],

functi on( $ro utes) {
    $route s-> get ('d ash board', 'Dashboard::ind
ex');
    $route s-> get ('u sers', 'Users::index');
    $route s-> get ('s ett ings', 'Settings::index');
};
});
```

Here, all routes for the admin page start with the prefix admin, and all the controllers for the admin page are located in the App\Controllers\Admin namespace.

#### 2.5. Create controllers for the admin page

#### app\Controllers\Admin\Dashboard.php

```
<?php
namespace App\Controllers\Admin;
use CodeIgniter\Controller;

class Dashboard extends Controller
{
   public function index()
   {
      return view('admin/dashboard');
   }
}</pre>
```

In each of these controller files, you need to inherit from Codelgniter-Controller and define a method to display the corresponding page. In this method, you can use the view helper to display the file view corresponding to that page.

#### **TOPIC 1: NAMING CONVENTION**

#### Controller file and class

```
File: UsersC ont rol ler.php
    class UsersC ont roller extends Controller {}
```

## **URI Segments**

The segments in the URL, in following with the Model-View-Controller approach, usually represent:

```
examp le.c o m / cl ass /m e t ho d/ID
```

- ◆ The first segment represents the controller class that should be invoked.
- ◆ The second segment represents the class method that should be called.
- ◆ The third, and any additional segments, represent the ID and any
  variables that will be passed to the controller.

#### Work with Subdirectory Controllers

### namespace

namespace App\Co ntr oll ers \Fo lde rname;

#### use

use App\Co ntr oll ers \Ba seC ont roller;
Class Classname extends BaseCo ntr oller()



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#### Work with Subdirectory Controllers (cont)

#### Config|Routes

```
$route s-> get ('/ fol der nam e', 'fo lde rna me/ con tOpenlPhpMyadmin > Create a database > Create a user
na me: :me thod');
```

#### **Database Migration (copy)**

#### Creating Databases in the Command Line

php spark db:create foo

## 6. Creating a table

#### Run CLI

php spark migrat e:c reate create na meo ftable

## Open created file:

✓ Add code to up () and down () method

#### Run CLI

- ✓ migrate: php spark migrate
- ✓ rollback:php spark migrat e:r ollback
- ✓ refresh:php spark migrat e:r efresh
- ✓ status:php spark migrat e:s tatus

#### Creating and Dropping Tables Document

## https://codeigniter.com/user\_guide/dbmgmt/forge.html#id4

MySQL Cheat Sheet

## https://cheatography.com/davechild/cheat-sheets/mysql/

#### Up() method

```
fields = [];
$forge ->a ddF iel d(' id');
$forge ->a ddF iel d($ fie lds);
//$for ge- >ad dPr ima ryK ey( 'id');
$forge ->c rea teT abl e(' its core');
down() method
$forge ->d rop Tab le( 'it sco re');
```

#### 5. Connect to the database

#### Create database & its user:

#### Edit file . env:

```
#----
# DATABASE
#----
databa se.d ef aul t.h ostname = localhost
databa se.d ef aul t.d atabase = databa sename
databa se.d ef aul t.u sername = username
databa se.d ef aul t.p assword = password
databa se.d ef aul t.D BDriver = MySQLi
```

Run app in a browser to see if you get any errors. If not, your connection is sucessful.

#### Some common CLI commands

php spark serve

-> This command starts the develo pment server and serves your CodeIg niter 4 applic ation on http://lo cal hos t:8 080/.

php spark make:c ont roller MyCont roller

- >This command creates a new controller named MyCont roller in the app/Co ntr ollers directory. php spark make: model MyModel
- -> This command creates a new model named MyModel in the app/Models directory.

php spark make:m igr ation create us ers table -> This command creates a new migration file for creating a users table in your database. php spark migrate

-> This command runs any pending database migrat ions.

php spark db:seed MySeeder

-> This command seeds your database with data using the specified seeder class name.

/These are just a few examples of the many CLI commands available in CodeIg niter 4. You can run php spark to see a list of all available commands and their descri ptions./



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