

Yii2

MVC

Arquitectura de software que separa los datos de una aplicación, la interfaz de usuario, y la lógica de control en tres componentes

- **Modelo:** Contiene una representación de los datos que maneja el sistema y su lógica de negocio.

- **Vista:** Compone la información que se envía al cliente y los mecanismos interacción con éste.

- **Controlador:** Intermediario entre el Modelo y la Vista, gestionando el flujo de información entre ellos y las transformaciones para adaptar los datos a las necesidades de cada uno.

Versiones y estructura

- Básico y avanzado

sistema
 assets
 commands
 config
 controllers
 models
 runtime
 vendor
 views
 web
 yii

Configurar proxy

```
sudo nano /etc/apt/apt.conf
```

```
Acquire::http::proxy "http://10.29.140.4:3128/";  
Acquire::https::proxy "https://10.29.140.4:3128/";  
Acquire::ftp::proxy "ftp://10.29.140.4:3128/";  
Acquire::socks::proxy "socks://10.29.140.4:3128/";
```

```
sudo nano ~/.bashrc
```

```
export http_proxy=http://10.29.140.4:3128/  
export https_proxy=http://10.29.140.4:3128/
```

Composer

Gestor de paquetes PHP

<https://getcomposer.org/download/>

```
curl https://getcomposer.org/installer > composer-setup.php
```

```
php composer-setup.php
```

```
php -r "unlink('composer-setup.php');" 
```

```
mv composer.phar /usr/local/bin/composer
```

```
composer global require fxp/composer-asset-plugin
```

Instalacion Yii2

```
composer create-project yiisoft/yii2-app-basic curso
```

```
composer require mdmsoft/yii2-admin "~2.0"
```

```
ruben@ruben-XPS-8920:/var/www/html$ composer create-project yiisoft/yii2-app-bas
ic curso
Installing yiisoft/yii2-app-basic (2.0.14)
- Installing yiisoft/yii2-app-basic (2.0.14): Loading from cache
Created project in curso
Loading composer repositories with package information
Updating dependencies (including require-dev)
Package operations: 65 installs, 0 updates, 0 removals
- Installing yiisoft/yii2-composer (2.0.7): Loading from cache
```

```
Writing lock file
Generating autoload files
> yii\composer\Installer::postCreateProject
chmod('runtime', 0777)...done.
chmod('web/assets', 0777)...done.
chmod('yii', 0755)...done.
> yii\composer\Installer::postInstall
ruben@ruben-XPS-8920:/var/www/html$
```

127.0.0.1/curso/web

Modelos

- Atributos
- Reglas de validación
- Escenarios

ActiveRecord

Modelos basados en tablas de la BD

Cargar modelo de la BD

```
$modelo =  
Modelo::findOne($id);  
  
$modelo = Modelo::findAll();  
  
$modelo = Modelo::findAll([  
    'atributo' => 'valor'  
]);  
  
$modelo = Modelo::find()  
    ->where()  
    ->orderBy()  
    ->limit()  
  
    ->one()  
    ->all()  
    ->count()
```

Acceder a atributos

```
$modelo->nombre;  
  
$modelo->apellido;  
  
$modelo->attributes;
```

Funciones para obtener datos segun necesidad

```
function getNombreCompleto()  
{  
    return $this->nombre . ' '  
        . $this->apellido;  
}  
  
$modelo->nombreCompleto;
```

Guardar datos

```
$modelo->save();  
$modelo->validate($validar, [  
    'nombre'  
]);
```

Validar datos

```
$modelo->validate();  
$modelo->validate([  
    'nombre'  
]);
```

Controladores

- Manejan peticiones
- Llama los modelos
- Retorna las vistas
- Actions

```
public function actionIndex()  
{  
    return 1;  
}
```

Peticiones

```
Yii::$app->request->isGet;  
Yii::$app->request->isPost;  
Yii::$app->request->isAjax;
```

```
Yii::$app->request->post();  
Yii::$app->request->post('nombre');
```

Acceso

Controlador/ActionIndex
controlador/index

OtroControlador/ActionHacerAlgo
otro-controlador/hacer-algo

Filtros

Ejecuta antes de acciones
AccessControl
VerbFilter

Imprimir vista

```
return $this->render('vista', ['parametro' => 'valorParametro']);
```

```
return $this->renderAjax('vista', [  
    'parametro' => 'valorParametro'  
]);
```

Redireccionar

```
return $this->redirect('url');
```

Excepciones

```
throw new \yii\web\BadRequestHttpException;
```

```
throw new \yii\web\NotFoundException('mensaje');
```

Sesiones

```
Yii::$app->session;
```

```
Yii::$app->session->set('nombre', 'asd');
```

```
Yii::$app->session->get('nombre');
```

```
Yii::$app->session->setFlash('clave', 'valor');
```

Vistas

Contiene lo visible para el usuario

- Html
- Css
- Scripts
- Widgets

Assets

Agrupar archivos css y js a cargar

Un asset puede depender de otro, para cargarlo en cadena automáticamente

Urls

```
Yii::$app->urlManager->createUrl(['controlador/accion', 'param' =>
                                'valor']);
Yii::$app->urlManager->createAbsoluteUrl(['controlador/accion',
                                'param' => 'valor']);
```

Rules

```
'<action:(signup|login)' => 'site/<action>',
```

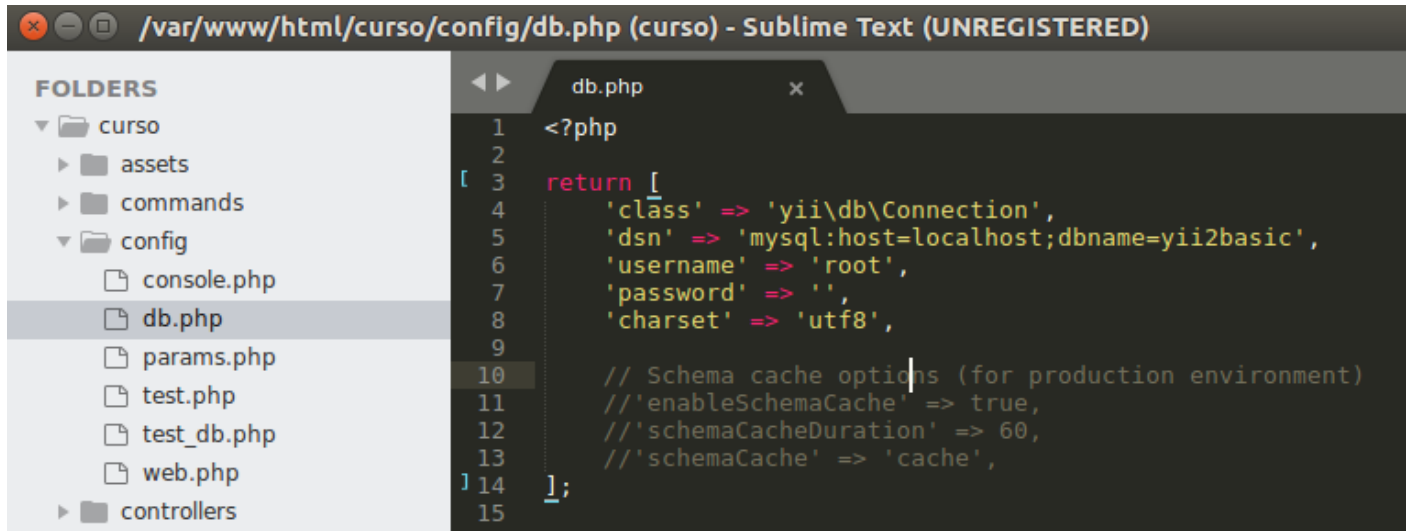
```
'<controller:(post|comment)>/<id:\d+>/<action:(update|delete)>' =>
'<controller>/<action>',
```

```
'pages' => 'pages/index',
'page/view/<code>' => 'pages/view',
```

```
'page/view/<code:\d+>' => 'pages/view',
```

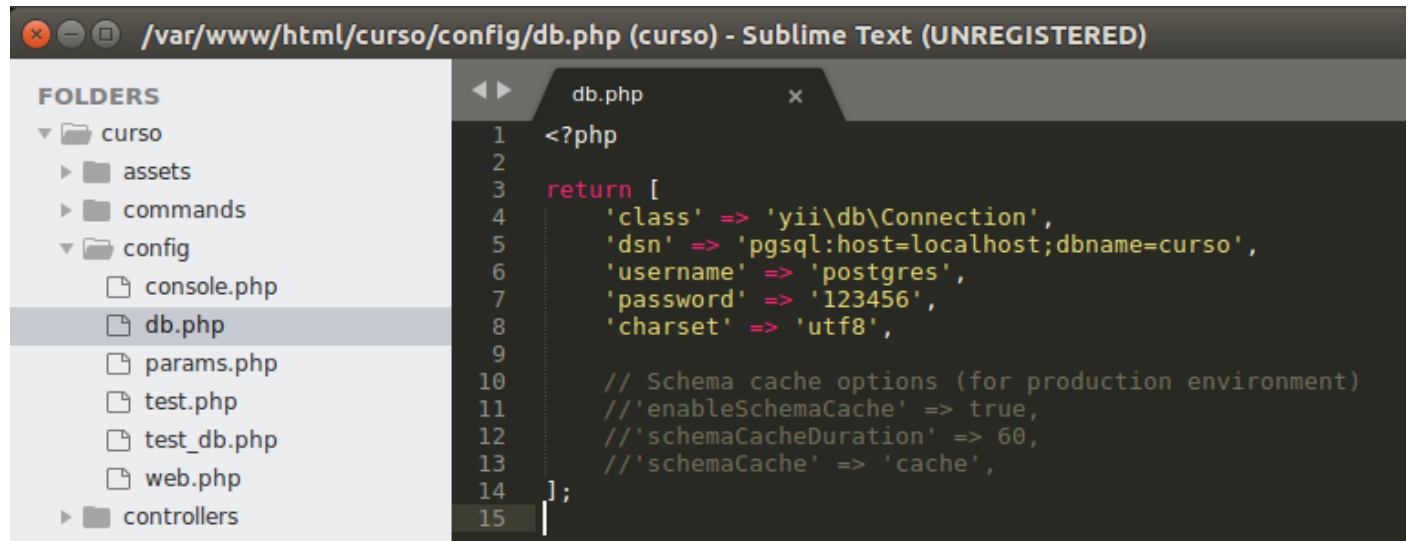
```
'page/view/<code:\d+>/<otracosa>' => 'pages/view',
```

Configurar BD



The screenshot shows the Sublime Text editor with the file `db.php` open. The left sidebar displays the project structure with folders `curso`, `assets`, `commands`, `config`, and `controllers`. The `config` folder is expanded, showing files `console.php`, `db.php` (selected), `params.php`, `test.php`, `test_db.php`, and `web.php`. The main editor area shows the following PHP code:

```
1 <?php
2
3 return [
4     'class' => 'yii\db\Connection',
5     'dsn' => 'mysql:host=localhost;dbname=yii2basic',
6     'username' => 'root',
7     'password' => '',
8     'charset' => 'utf8',
9
10    // Schema cache options (for production environment)
11    //'enableSchemaCache' => true,
12    //'schemaCacheDuration' => 60,
13    //'schemaCache' => 'cache',
14 ];
15
```



The screenshot shows the Sublime Text editor with the file `db.php` open. The left sidebar displays the project structure with folders `curso`, `assets`, `commands`, `config`, and `controllers`. The `config` folder is expanded, showing files `console.php`, `db.php` (selected), `params.php`, `test.php`, `test_db.php`, and `web.php`. The main editor area shows the following PHP code:

```
1 <?php
2
3 return [
4     'class' => 'yii\db\Connection',
5     'dsn' => 'pgsql:host=localhost;dbname=curso',
6     'username' => 'postgres',
7     'password' => '123456',
8     'charset' => 'utf8',
9
10    // Schema cache options (for production environment)
11    //'enableSchemaCache' => true,
12    //'schemaCacheDuration' => 60,
13    //'schemaCache' => 'cache',
14 ];
15
```



```
web.php x params.php x
1 <?php
2
3 $params = require __DIR__ . '/params.php';
4 $db = require __DIR__ . '/db.php';
5
6 $config = [
7     'id' => 'curso',
8     'name' => 'Curso',
9     'language' => 'es',
10    'basePath' => dirname(__DIR__),
11    'bootstrap' => ['log'],
12    'aliases' => [
13        '@bower' => '@vendor/bower-asset',
14        '@npm' => '@vendor/npm-asset',
15    ],
16    'components' => [
17        'request' => [
18            // !!! insert a secret key in the following (if it is empty)
19            'cookieValidationKey' => '0cji4dcMt5xPBhVZM0g-AiNqtN7DUH-F',
20        ],
21        'cache' => [
22            'class' => 'yii\caching\FileCache',
23        ],
24        'user' => [
25            'identityClass' => 'app\models\User',
26            'enableAutoLogin' => true,
27        ],
28        'errorHandler' => [
29            'errorAction' => 'site/error',
30        ],
31        'mailer' => [
32            'class' => 'yii\swiftmailer\Mailer',
33            // send all mails to a file by default. You have to set
34            // 'useFileTransport' to false and configure a transport
35            // for the mailer to send real emails.
36            'useFileTransport' => true,
37        ],
38        'log' => [
39            'traceLevel' => YII_DEBUG ? 3 : 0,
40            'targets' => [
41                [
42                    'class' => 'yii\log\FileTarget',
43                    'levels' => ['error', 'warning'],
44                ],
45            ],
46        ],
47        'db' => $db,
48        'urlManager' => [
49            'enablePrettyUrl' => true,
50            'showScriptName' => true,
51            'rules' => [
52            ],
53        ],
54    ],
55    'params' => $params,
56 ];
57
```

RBAC

<https://github.com/mdmsoft/yii2-admin>

```
/config/params.php (cursoyii) - Sublime Text (UNREGISTERED)

web.php x params.php x
1 <?php
2
3 return [
4     'adminEmail' => 'admin@example.com',
5     'mdm.admin.configs' => [
6         'menuTable' => 'seguridad.menu',
7         'userTable' => 'seguridad.user',
8     ],
9 ];
10
```

```
i/config/web.php (cursoyii) - Sublime Text (UNREGISTERED)

web.php x params.php x
16 'modules' => [
17     'admin' => [
18         'class' => 'mdm\admin\Module',
19     ]
20 ],
21 'components' => [
22     'request' => [
23         // !!! insert a secret key in the following (if i
24         'cookieValidationKey' => 'jtxz2KF0JoAFgSvTTPjcVFb
25     ],
26     'cache' => [
27         'class' => 'yii\caching\FileCache',
28     ],
29     'user' => [
30         'identityClass' => 'mdm\admin\models\User',
31         'enableAutoLogin' => true,
32     ],
33     'authManager' => [
34         'class' => 'yii\rbac\DbManager',
35         'itemTable' => 'seguridad.auth_item',
36         'itemChildTable' => 'seguridad.auth_item_child',
37         'assignmentTable' => 'seguridad.auth_assignment',
38         'ruleTable' => 'seguridad.auth_rule',
39     ],
40     'errorHandler' => [
41         'errorAction' => 'site/error',
42     ],
43     'mailer' => [
```

AuthManager también en config/console.php

Migraciones

Cd /var/www/html/curso

./yii migrate/create crear_esquema_seguridad

```
1  <?php
2
3  use yii\db\Migration;
4
5  /**
6   * Class m180926_030719_crear_esquema_seguridad
7   */
8  class m180926_030719_crear_esquema_seguridad extends Migration
9  {
10     /**
11      * {@inheritdoc}
12      */
13     public function safeUp()
14     {
15         $this->execute('CREATE SCHEMA seguridad');
16     }
17
18     /**
19      * {@inheritdoc}
20      */
21     public function safeDown()
22     {
23         $this->execute('DROP SCHEMA seguridad');
24     }
25 }
26
```

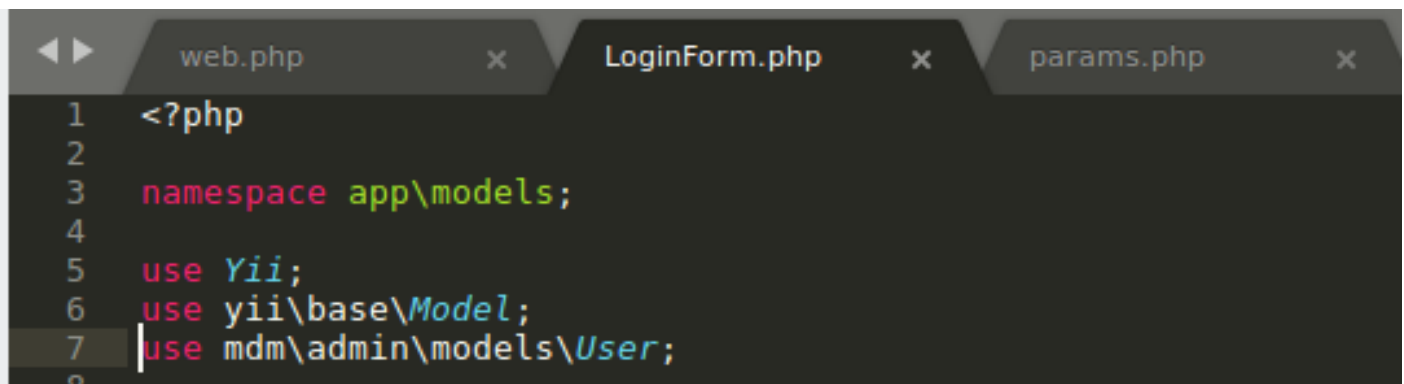
./yii migrate

./yii migrate/down

127.0.0.1/curso/web/index.php/admin/user/signup

Models/LoginForm.php

```
68
69     /**
70      * Finds user by [[username]]
71      *
72      * @return User|null
73      */
74     public function getUser()
75     {
76         if ($this->_user === false) {
77             $this->_user = User::findByUsername($this->username);
78         }
79
80         return $this->_user;
81     }
82 }
83
```



The screenshot shows an IDE with three tabs: web.php, LoginForm.php, and params.php. The LoginForm.php tab is active, displaying the following PHP code:

```
1 <?php
2
3 namespace app\models;
4
5 use Yii;
6 use yii\base\Model;
7 use mdm\admin\models\User;
8
```