**ORDEN PARA INICIAR UN PROYECTO USANDO EL MVC**

1. Composer init + require vlucas/phpdotenv

```
{} composer.json > {} autoload > {} psr-4 > abc Routes\
 1  {
 2      "name": "mishael/mi-agenda",
 3      "description": "Proyecto Mi Agenda",
 4      "type": "project",
 5      "autoload": {
 6          "psr-4": {
 7              "Mishael\\MiAgenda\\": "src/",
 8              "Controllers\\": "./src/Controllers",
 9              "Models\\": "./src/Models",
10              "Lib\\": "./src/Lib",
11              "Repositories\\": "./src/Repositories",
12              "Services\\": "./src/Services",
13              "Views\\": "./src/Views",
14              "Routes\\": "./src/Routes"
15          }
16      },
17      "authors": [
18          {
19              "name": "Mishael Bonel",
20              "email": "mbonelortiz@gmail.com"
21          }
22      ],
23      "minimum-stability": "stable",
24      "require": {
25          "vlucas/phpdotenv": "^5.6"
26      }
27  }
28
```

2. Carpetas básicas (public, src, controllers, models, css, images, js)

```
∨ 🌐 public
  > 📁 css
  > 📁 img
  > 📁 js
    .htaccess
    index.php
> </> src
> 📦 vendor
  .env
  .htaccess
  {} composer.json
  {} composer.lock
```

3. '.htaccess'

- Public:

```
public > .htaccess > IfModule
1    <IfModule mod_rewrite.c>
2        Options -Multiviews
3        RewriteEngine on
4
5        #RewriteBase /agendapublic/public
6
7        RewriteCond %{REQUEST_FILENAME} !-d
8        RewriteCond %{REQUEST_FILENAME} !-f
9
10       RewriteRule ^ index.php [QSA,L]
11   </IfModule>
```

- Src:

```
src > .htaccess
1    Options -Indexes
```

- Raíz:

```
.htaccess
1    <IfModule mod_rewrite.c>
2        Options All -Indexes
3        Options -Multiviews
4
5        RewriteEngine on
6
7        #ErrorDocument 404 http://MiAgenda/error
8
9        RewriteCond %{REQUEST_FILENAME} !-d
10       RewriteCond %{REQUEST_FILENAME} !-f
11
12       RewriteRule ^$ public/ [L]
13       RewriteRule (.*) public/$1 [L]
14   </IfModule>
```

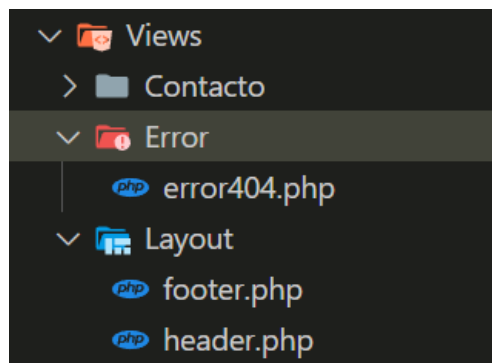4. Router, Pages, ErrorController, Views(Error, Layout), Config

- Archivo router en moodle o projectos anteriores.

- Pages de la Moodle o proyectos anteriores.

- ErrorController:

```php
src > Controllers > php ErrorController.php > ErrorController > error404
1   <?php
2       namespace Controllers;
3       use Lib\Pages;
4
5       class ErrorController{
6           public static function error404(){
7               $pages = new Pages();
8               $pages->render('Error/error404', ['titulo' => 'Página no encontrada']);
9           }
10      }
11  ?>
```

- Views:

```
∨ Views
  > Contacto
  ∨ Error
      php error404.php
  ∨ Layout
      php footer.php
      php header.php
```

- Config:

```php
config > php config.php > ...
1   <?php
2       define("BASE_URL", "http://localhost/MiAgenda/");
3   ?>
```

5. Archivo de conexión BBDD 'BaseDatos.php' en Lib:

- De anteriores proyectos o de Moodle.

6. Modelos, Repositorios, Servicios y Controladores.

7. Routes:

```php
src > Routes > ⚙ Routes.php > 😺 Routes > 📦 index
 1   <?php
 2   namespace Routes;
 3   use Controllers\ErrorController;
 4   use Lib\Router;
 5   use Controllers\ContactoController;
 6
 7   class Routes{
 8       public static function index(){
 9           // Funciones de mi aplicación
10           Router::add('GET', '/', function (){
11               return (new ContactoController())->listar();
12           });
13           Router::add('GET', '/public/', function (){
14               return (new ContactoController())->listar();
15           });
16           Router::add('GET', '/Contacto/listar', function (){
17               return (new ContactoController())->listar();
18           });
19
20           Router::add('GET', '/Contacto/nuevoContacto', function (){
21               return (new ContactoController())->nuevoContacto();
22           });
23           Router::add('GET', '/Contacto/verContacto/:id', function (int $id){
24               return (new ContactoController())->verContacto($id);
25           });
26
27           // Función para cargar los errores
28           Router::add('GET', '/error/', function (){
29               return (new ErrorController())->error404();
30           });
31
32           Router::dispatch();
33       }
34   }
```

8. '.env'. En la raíz:

```
 🗇 .env
 1   SERVERNAME = localhost
 2   USERNAME = root
 3   PASSWORD =
 4   DATABASE = miagenda
 5
```

9. '.init.php'. Dentro de la carpeta 'src':

```php
<?php

session_start();

use Routes\Routes;
require_once '../vendor/autoload.php';
require_once '../config/config.php';

$dotenv = Dotenv\Dotenv::createImmutable(dirname(__DIR__, 1));
$dotenv->safeLoad();

Routes::index();
```

10. 'index.php':

```php
<?php

require_once '../src/init.php';
```

11. 'ContactoController.php':

```php
<?php
namespace Controllers;

use Lib\Pages;

class ContactoController{
    private Pages $pages;

    function __construct() {
        $this->pages = new Pages();
    }

    public function listar(){
        $this->pages->render('Contacto/mostrarContactos', ['contactos' => 'Estos son todos tus contactos']);
    }

    public function nuevoContacto(){
        $this->pages->render('Contacto/agregarContacto');
    }

    public function verContacto(){
        $this->pages->render('Contacto/mostrarUnContacto');
    }
}
```