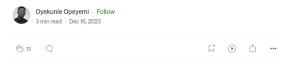
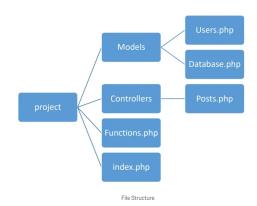


Autoload Multiple Files From Different Directories in PHP



Let's take a look at the file structure below:



This is not a real project, but a sample good enough to explain how to autoload multiple files from different directories. First off, let's start with autoloading files from one directory.

1. Autoload files from a single directory: Let's make an assumption that files would be loaded from only the Models directory, we can simply use the PHP built-in autoload function:

 $spl_autoload_register(?callable \\ $callback = null, bool \\ $throw = true, bool \\$ \$prepend = false): bool

i. The first parameter is a callback (optional). The default value is null. The $\,$ default implementation of spl_autoload will be registered if no parameter is provided.

ii. The second parameter is a boolean (optional). The default is true. If the autoload_function cannot be registered, spl_autoload_register() should throw exceptions.

iii. The third parameter is also a boolean (optional). If true, spl_autoload_register() will prepend the autoloader on the autoload stack instead of appending it.

For more explanation about this function, you can follow this link

https://www.php.net/manual/en/function.spl-autoload-register.php

Let's create Database.php and Users.php files in the Model directory, and an index.php file in the root directory:

Database.php

```
class Database{
   public function connect() : string {
      return "I am connected to the database.";
```

Users.php



index.php

```
<?php

spl_autoload_register(function ($class){
    $class_name = substr($class, strrpos ($class, "\\"));
    require_once 'Models/'.ucfirst($class_name).".php";
    }
);

$Database = new Database();
$Users = new Users();</pre>
```

In the index.php file, we have been able to include all the php files in the Model directory by using the spl_autoload_register() function. So, let's look at how we can autoload multiple files from multiple directories.

2. Autoload files from multiple directories: This is more of an upgrade to our last example. Let start by creating two more files: Posts.php in the Controllers directory and Functions.php in the root directory:

Posts.php

```
<?php

class Posts{
   public function get_post() : array {
     return [
          'id'=> 1,
          'title'=> 'Autoload Multiples Files From Different Directories in PH
     ];
   }
}
```

Functions.php

```
<?php

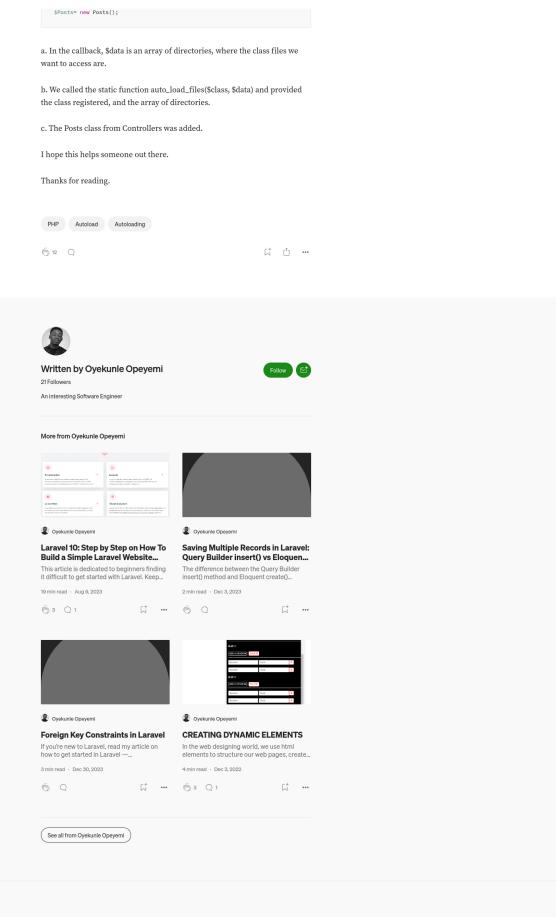
class Functions{
   public static function auto_load_files(string $class, array $dirs) : void {
      $class_name = substr($class, strrpos ($class, "\\"));
      foreach ($dirs as $dir) {
      $classes = "$dir/".ucfirst($class_name).".php";
      if (file_exists($classes)) require_once $classes;
    }
  }
}</pre>
```

Let's take a look at what we have in the Functions.php file:

- a. A static function was created with two parameters that accepts a string and an array respectfully.
- b. The \$dirs array was looped through to pick each directory in the array to form a path to the class file names.
- c. In order not to assign a file to a directory that does not exist, a file_exists() function was used to check the file's existence in the directory before creating a path for it.

We would have to update the index.php file.

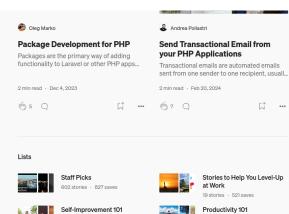
index.php



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"mutoload": (
 "por"": (
 "yourVendor\\HelloWorld\\": "src/"
),
 "prefer-stable": true,
 "minimum-stability": "dev"
}







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