Level 2

Includes & Requires

Require or Throw Error

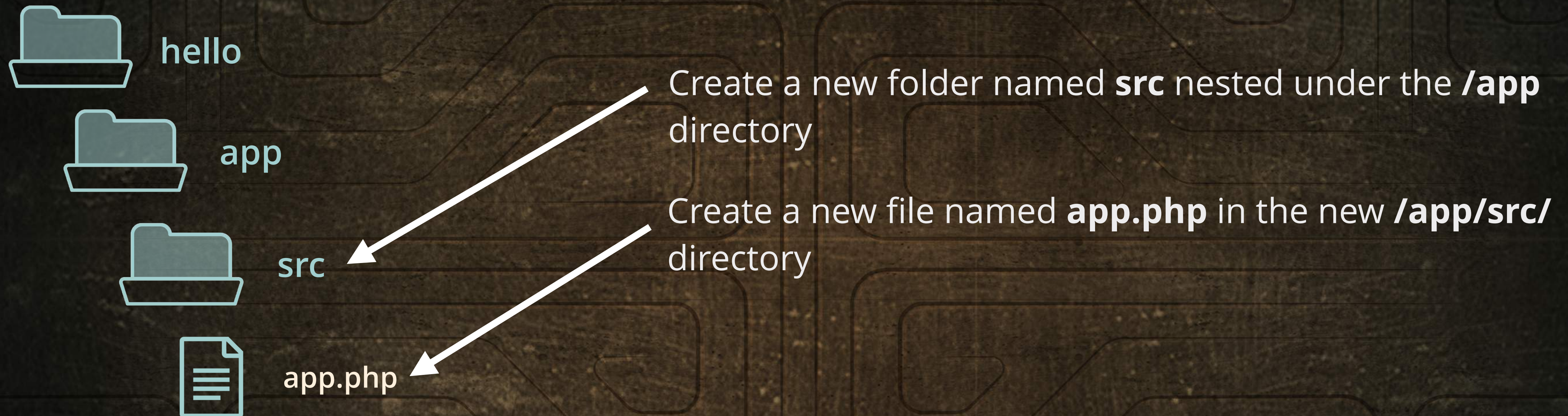# Let's Move Our Code Out of Here!

```php
<?php
if($_SERVER['REQUEST_METHOD'] === 'POST')) {
    $date = $_POST['date'];
    $email = $_POST['email'];
    $description = $_POST['desc'];

    echo "<p>Date: $date</p>";
    echo "<p>Email: $email</p>";
    echo "<p>$description</p>";
}
?>
<!DOCTYPE html>
<html>
<head>
  <title>PHP Demo</title>
  <meta content="width=device-width, initial-scale=1" name="viewport" />
  <link rel="stylesheet" href="css/application.css" />
```

New Folder & File for Our Code

Create a new folder inside our **app** folder to hold our project source.

hello

app

src

app.php

Create a new folder named **src** nested under the **/app** directory

Create a new file named **app.php** in the new **/app/src/** directory

CLOSE
ENCOUNTERS
with
PHP

Copying Code From Index to App File

```php
<?php
if($_SERVER['REQUEST_METHOD'] === 'POST')) {
    $date = $_POST['date'];
    $email = $_POST['email'];
    $description = $_POST['desc'];

    echo "<p>Date: $date</p>";
    echo "<p>Email: $email</p>";
    echo "<p>$description</p>";
}
?>
<!DOCTYPE html>
<html>
<head>
  <title>PHP Demo</title>
  <meta content="width=device-width, initial-sc
  <link rel="stylesheet" href="css/application.
</head>
```

PHP-only files don't have a ?>, or closing tag

```php
<?php
if($_SERVER['REQUEST_METHOD'] ===
    $date = $_POST['date'];
    $email = $_POST['email'];
    $description = $_POST['desc']

    echo "<p>Date: $date</p>";
    echo "<p>Email: $email</p>";
    echo "<p>$description</p>";
}
```

Requiring the App **File in the** Index **File**

```php
<?php
  require __DIR__ . '/../app/src/app.php';
?>
<!DOCTYPE html>
<html>
<head>
  <title>PHP Demo</title>
  <meta content="width=device-width, initial-sc
  <link rel="stylesheet" href="css/application.
</head>
<body>
<?php
  include('../app/views/header.php');
  include('../app/views/content.php');
  include('../app/views/footer.php');
?>
</body>
</html>
```

app/src/app.php

```php
<?php
if($_SERVER['REQUEST_METHOD'] ===
    $date = $_POST['date'];
    $email = $_POST['email'];
    $description = $_POST['desc']

    echo "<p>Date: $date</p>";
    echo "<p>Email: $email</p>";
    echo "<p>$description</p>";
}
```

Require vs. Include

If a required file doesn't exist, the entire page won't load.

public/index.php

```php
<?php
  require __DIR__ . '/../app/src/foo.php';
?>
<!DOCTYPE html>
<html>
<head>
  <title>PHP Demo</title>
  <meta content="width=device-width, initial-scale=1" name="viewport" />
  <link rel="stylesheet" href="css/application.css" />
</head>
<body>
<?php
  include('../app/views/header.php');
  include('../app/views/content.php');
  include('../app/views/footer.php');
```

This file does not exist and will generate an error

Require vs. Include

If a required file doesn't exist, the entire page won't load.

public/index.php

```php
<?php
  require __DIR__ . '/../app/src/foo.php';
?>
<!DOCT
<html>
<head>
  <tit
  <met                                    rt" />
  <lin
</head
<body>
<?php
  incl
  incl
  incl
```

The page will not load!

> **(!) Warning:** require(/var/www/hello/public/../app/src/foo.php): failed to open stream: No such file or directory in /var/www/hello/public/index.php on line *2*
>
> **Call Stack**
>
> | # | Time | Memory | Function | Location |
> |---|------|--------|----------|----------|
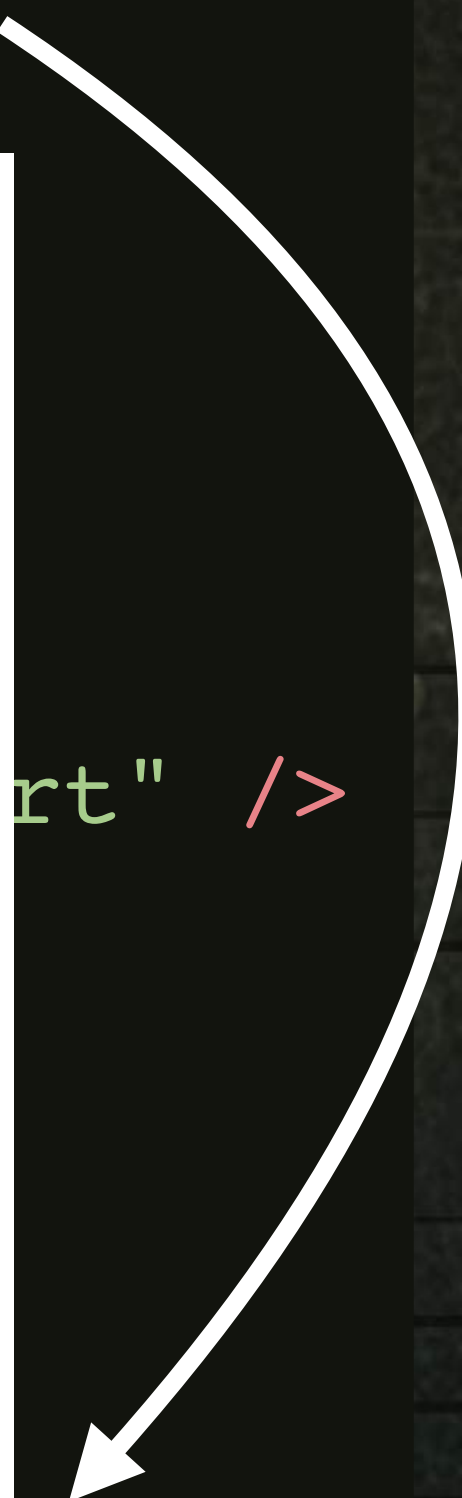> | 1 | 0.0037 | 357752 | {main}( ) | .../index.php:0 |
>
> **(!) Fatal error:** require(): Failed opening required '/var/www/hello/public/../app/src/foo.php' (include_path='.:/usr/share/php') in /var/www/hello/public/index.php on line *2*
>
> **Call Stack**
>
> | # | Time | Memory | Function | Location |
> |---|------|--------|----------|----------|
> | 1 | 0.0037 | 357752 | {main}( ) | .../index.php:0 |

Require vs. Include

If an included file doesn't exist, the parts that do exist still load.

public/index.php

```php
<?php
 include __DIR__ . '/../app/src/foo.php';
?>
<!DOCTYPE html>
<html>
<head>
  <title>PHP Demo</title>
  <meta content="width=device-width, initial-scale=1" name="viewport" />
  <link rel="stylesheet" href="css/application.css" />
</head>
<body>
<?php
  include('../app/views/header.php');
  include('../app/views/content.php');
  include('../app/views/footer.php');
```

Change require *to* include

Require vs. Include

If an included file doesn't exist, the parts that do exist still load.

public/index.php

```php
<?php
    include __DIR__ . '/../app/src/foo.php';
?>
<!DOCT
<html>
<head>
    <tit
    <met                                            rt" />
    <lin
</head
<body>
<?php
    incl
    incl
    incl
```

The page will load!

Warning: include(/var/www/hello/public/../app/src/foo.php): failed to open stream: No such file or directory in /var/www/hello/public/index.php on line *2*

Call Stack

#	Time	Memory	Function	Location
1	0.0030	357752	{main}( )	.../index.php:0

Warning: include(): Failed opening '/var/www/hello/public/../app/src/foo.php' for inclusion (include_path='.:/usr/share/php') in /var/www/hello/public/index.php on line *2*

Call Stack

#	Time	Memory	Function	Location
1	0.0030	357752	{main}( )	.../index.php:0

Form to Log

The New & Improved index.php

```php
<?php
  require __DIR__ . '/../app/src/app.php';
?>
<!DOCTYPE html>
<html>
<head>
  <title>PHP Demo</title>
  <meta content="width=device-width, initial-scale=1" name="viewport" />
  <link rel="stylesheet" href="css/application.css" />
</head>
<body>
<?php
  include('../app/views/header.php');
  include('../app/views/content.php');
  include('../app/views/footer.php');
?>
</body>
</html>
```

The main php *logic is <u>required</u> for this page to work*

The generated HTML for this page is <u>included</u>