Dynamic websites

Working with PHP

blanq

Static Sites

Comparison of static & dynamic websites

ÿ Static content (HTML, CSS, JS)

ÿ Individual documents

ÿ One-to-one access to the document

Advantages

ÿ Good performance

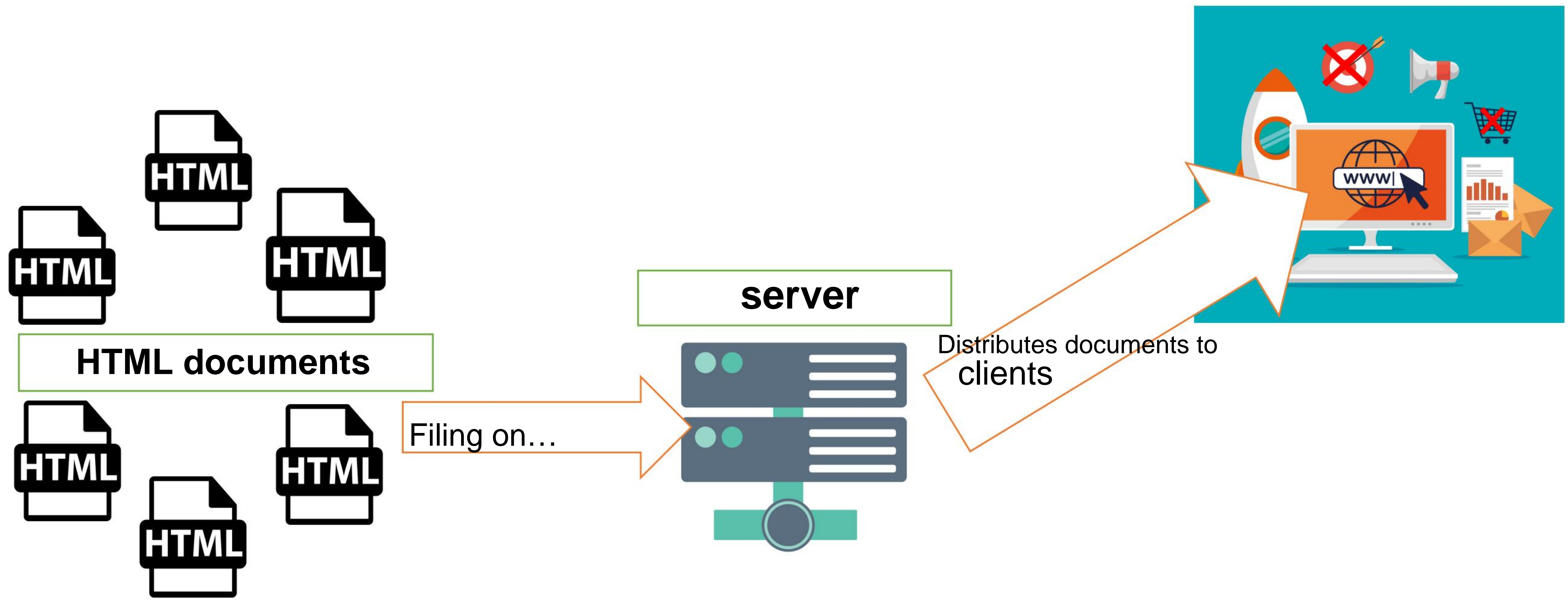ÿ Low requirements (server etc.)

Disadvantages

ÿ Editing via code only

ÿ No database connection possible

Procedure for static websites

Comparison of static & dynamic websites

Static

site

HTML documents

server

Filing on…

Distributes documents to clients

Dynamic websites

Comparison of static & dynamic websites

ÿ Communication with server

ÿ CMS/shop systems

ÿ Simple features, e.g. B. Forms
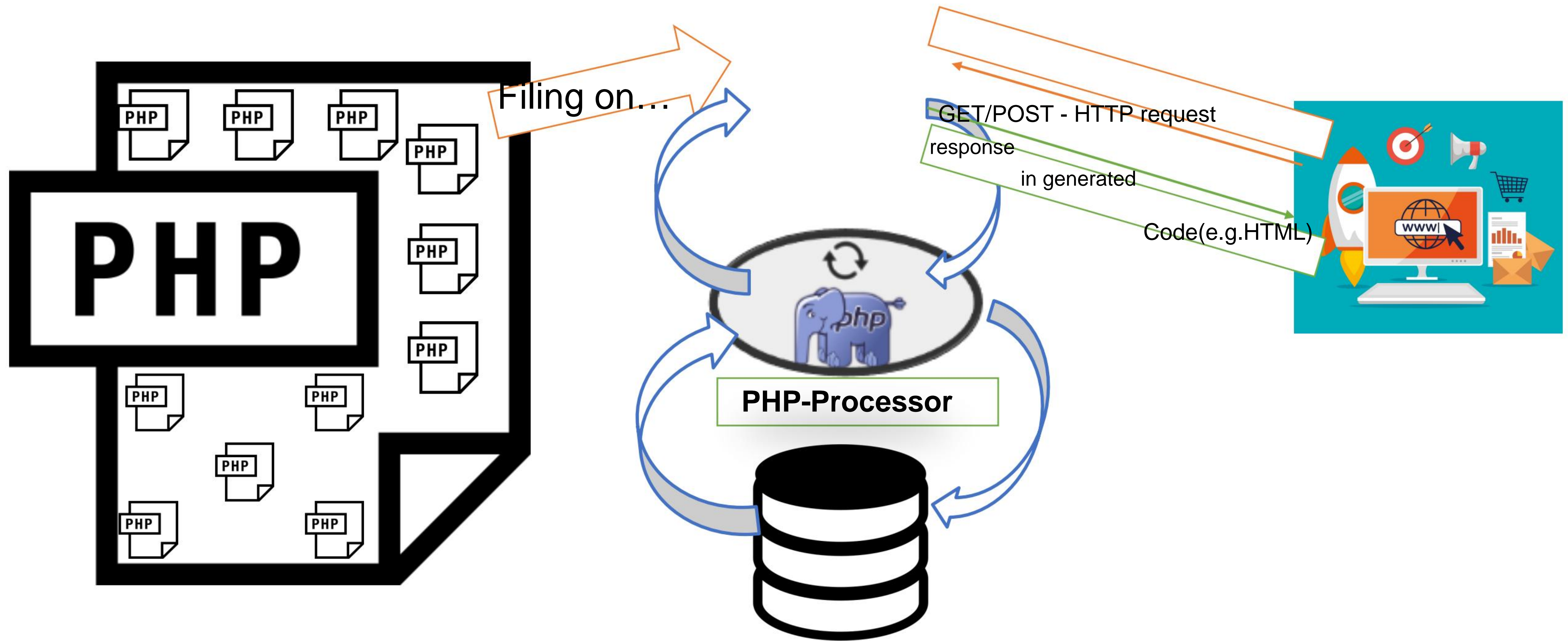
ÿ Precursor to HTML

Advantages

ÿ Connection to database possible

ÿ Logic can be implemented

Disadvantages

ÿ PHP knowledge

ÿ Higher requirements

Procedure for dynamic pages

Comparison of static & dynamic websites

Filing on…

GET/POST - HTTP request

response

in generated

Code(e.g.HTML)

PHP-Processor

Example HTML page

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <header>
        Der Header der Seite
    </header>
    <main>
        <div class="container">
            Hier ist der Hauptcontent der Seite.
        </div>
    </main>
    <footer>

        ...

    </footer>
</body>
</html>
```
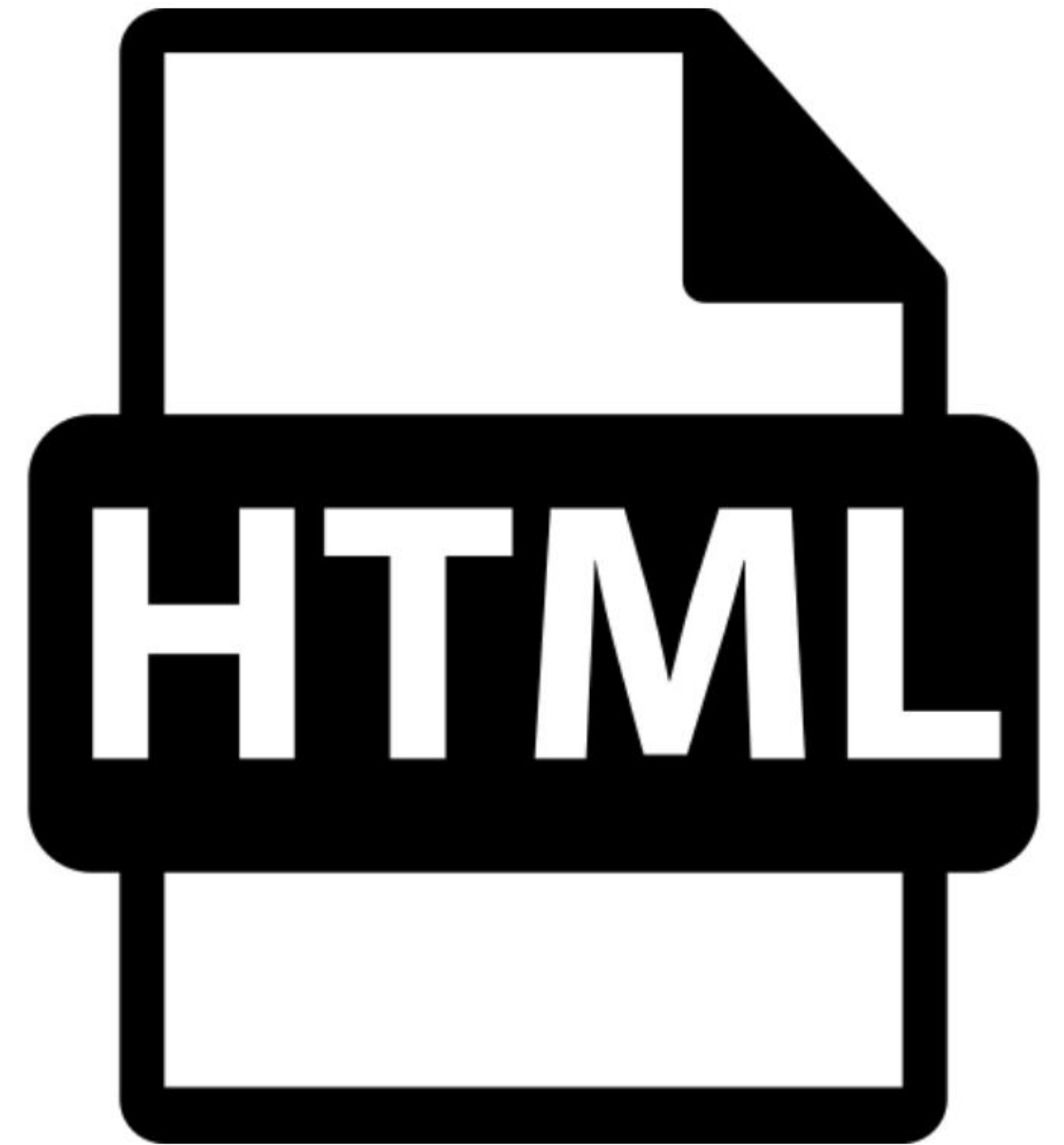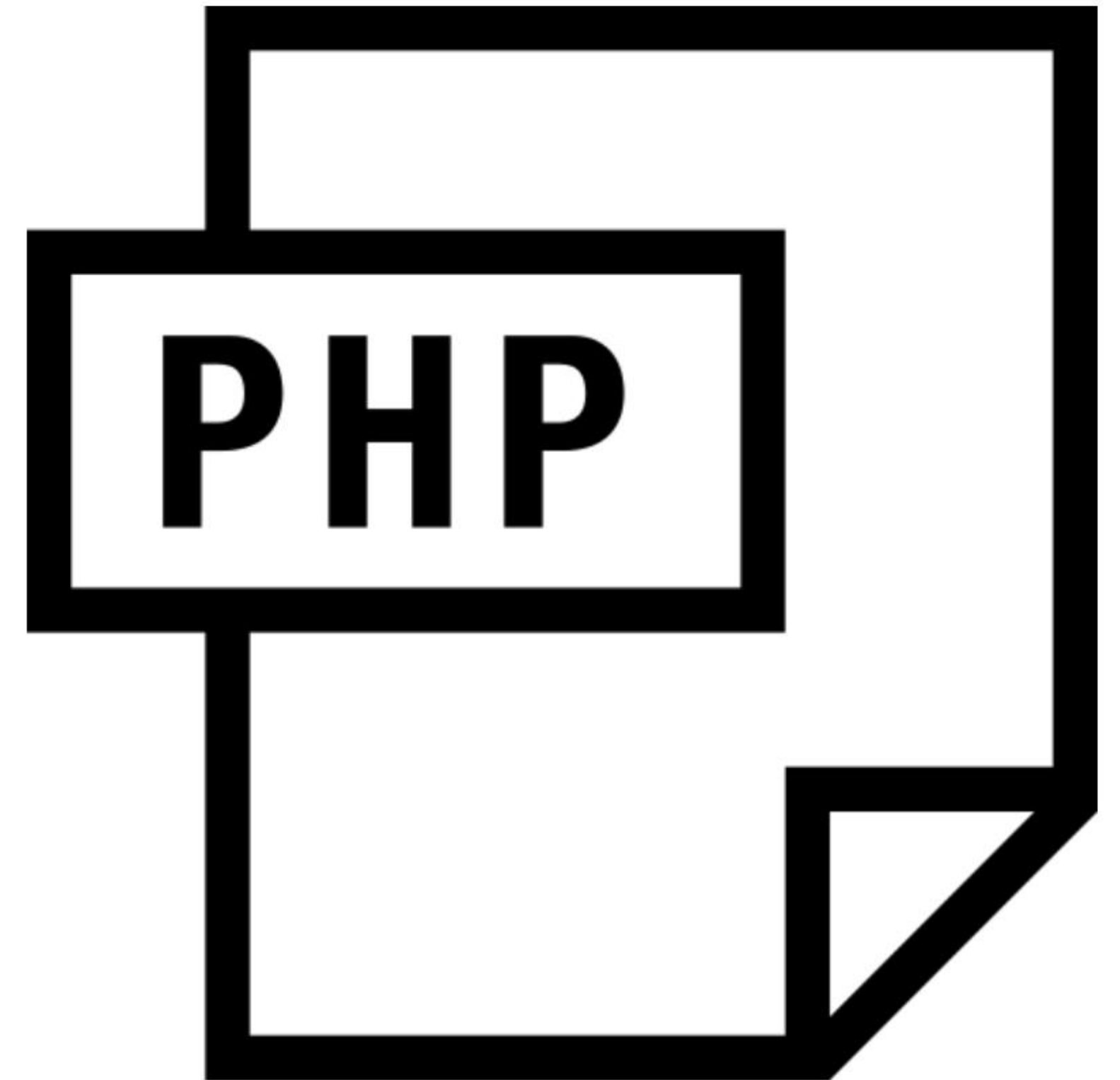
Example PHP page

```php
<?php
$title = 'Startseite';
?>
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title><?php echo $title; ?></title>
</head>
<body>
<?php
    if ($title === 'Startseite') {
        echo '<header>
                Der Header der Startseite
            </header>';
    } else {
        echo '<header>
                Der Header einer Unterseite
            </header>';
    }
?>
```

Task 1

1. Create an empty file named index.php

2. Fill the file with standard HTML5 framework

3. Place the file in the web folder of MAMP/XAMPP (htdocs or similar)

4. Start MAMP/XAMPP

5. Access the site through a browser

PHP flag

```php
<?php
    if ($title === 'Startseit
        echo '<header>
                Der Header de
            </header>';
    } else {
        echo '<header>
                Der Header ei
            </header>';
    }
?>
```

} **PHP code**

exercise 2

1. Carry phpinfo(); into the index.php
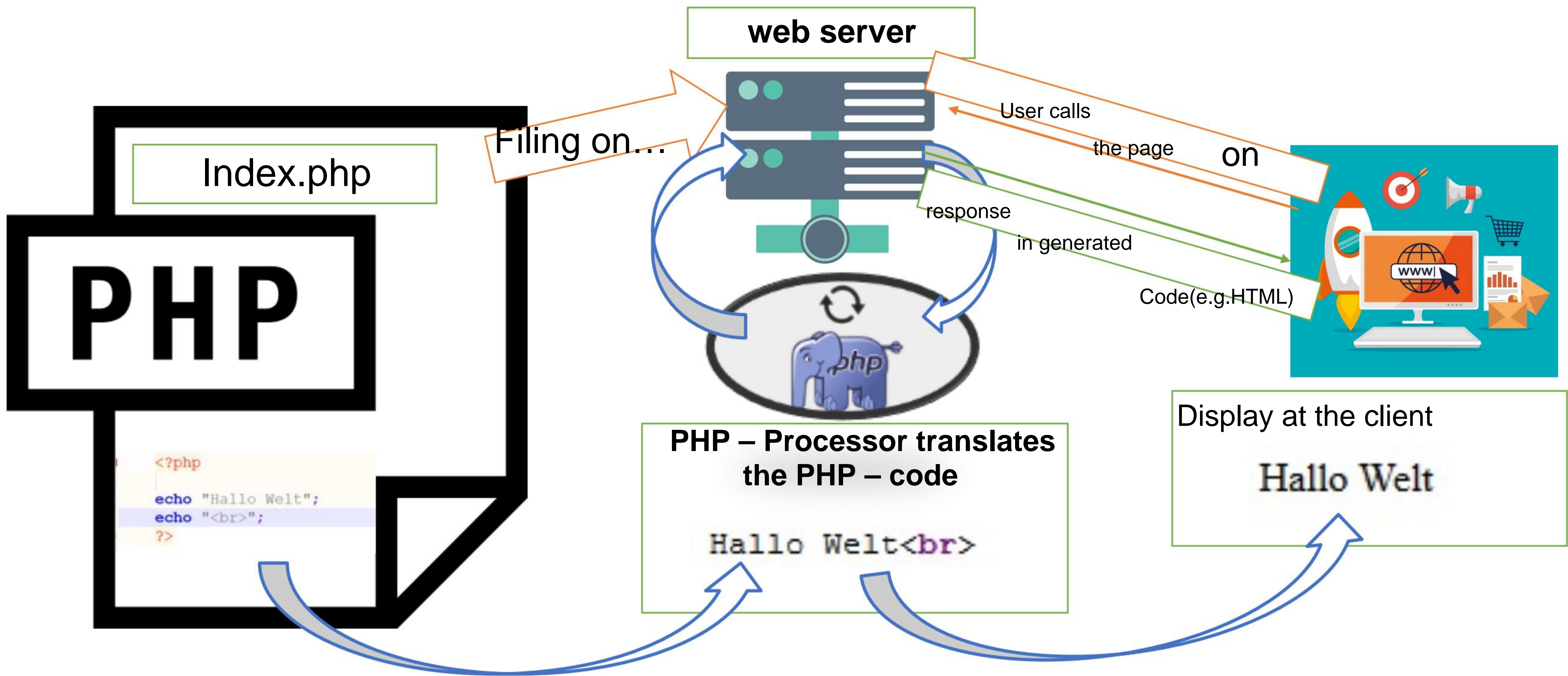
2. Refresh the page in the browser

code syntax

```php
<?php
echo 'Hallo Welt';
echo '<br>';
?>
```

ÿ echo => statement/command

ÿ 'Hello World' => String

ÿ ; => Ends an instruction/command

Flow of the code example

web server

Index.php

Filing on…

User calls

the page

on

response

in generated

Code(e.g.HTML)

PHP – Processor translates the PHP – code

Hallo Welt

Display at the client

Hallo Welt

```
<?php

echo "Hallo Welt";
echo "<br>";
?>
```

Data types of a variable

PHP Variables

ÿ integer

ÿ float

ÿ String

ÿ Boolean

ÿ arrays

ÿNo type safety, variables can be overwritten with other data types

Structure of a variable

PHP Variables

```php
<?php
$title = 'Startseite';
?>
```

```php
<?php
echo $title;
?>
```

ÿ $ => Identification of a variable

ÿ title => Name of the variable (Name)

ÿ = => assignment

ÿ 'Home' => value of variable

Single & multi-line comment

PHP comments

```
/**
 * Hier kann ein
 * mehrzeiliges
 * Kommentar stehen
 */
```

ÿ /* => Start of comment

ÿ Here you can ... => Text of the comment

ÿ */ => assignment

```
// Hier steht ein einzeiliges Kommentar
```

ÿ // => Start of comment

ÿ Here it says ...   => Text of the comment

task 3

1.phpinfo(); remove from the index.php

2. Add a simple output (echo) to index.php

3. Refresh the page in the browser

4. Create a variable in index.php and assign a string to it

   ÿ Let the variable print out

   ÿ Provide a descriptive comment

5. Use an HTML tag for the output, e.g.
/<strong> or similar.

   ÿ Refresh the page in the browser

Thank you for yours

Attention!