PROGRAM STUDI INFORMATIKA

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PEMROGRAMAN WEB I

3 SKS – MINGGU 8

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SILABUS
PEMROGRAMAN WEB

Use PHP server-side to add web consistency:

- *PHP installation*
- *PHP include files*
- *PHP Global Variable: GET*
- *PHP switch statement*
- *Handling web navigation*

INTRODUCTION
PHP SERVER SIDE

- *PHP is an acronym for "PHP: Hypertext Preprocessor"*

- *PHP is a widely-used, open source scripting language*

- *PHP scripts are executed on the server*

- *PHP is free to download and use*

INTRODUCTION
PHP SERVER SIDE

■ *PHP files can contain text, HTML, CSS, JavaScript, and PHP code*

■ *PHP code are executed on the server, and the result is returned to the browser as plain HTML*

■ *PHP files have extension ".php"*

■ *PHP is compatible with almost all web servers used today (Apache, IIS, etc.)*

INTRODUCTION
PHP SERVER SIDE

To start doing programming with PHP, you must:

- *install a web server*

- *install PHP*

- *install a database, such as MySQL*

Otherwise there is other way to do it all in one package by using web server solution such us XAMPP, WAMP, etc.

INTRODUCTION
PHP SERVER SIDE

- *A PHP script can be placed anywhere in the document.*

- *A PHP script starts with **<?php** and ends with **?>***

```
<?php
    // PHP code goes here
?>
```

- *The default file extension for PHP files is **".php"**.*

- *A PHP file normally contains HTML tags, and some PHP scripting code.*

PHP INCLUDE FILES
PHP SERVER SIDE

- *We can use PHP Include to add consistency to our web.*
- *The include statement takes all the text/code/markup that exists in the specified file and copies it into the file that uses the include statement.*

PHP INCLUDE & REQUIRE FILES
PHP SERVER SIDE

■ *Assume we have a standard footer file called **"footer.php"**, that looks like this:*

```php
<?php

echo "<p>Copyright &copy; " . date("Y") . " UKRIDA</p>";

?>
```

PHP INCLUDE & REQUIRE FILES
PHP SERVER SIDE

■ *To include the footer file in a page, use the include statement:*

```
<html>
<body>

<h1>Welcome to my home page!</h1>
<p>Some text.</p>
<p>Some more text.</p>
<?php include 'footer.php'; ?>

</body>
</html>
```

PHP GLOBAL VARIABLES
PEMROGRAMAN WEB II

- *Several predefined variables in PHP are "superglobals", which means that they are always accessible, regardless of scope - and you can access them from any function, class or file without having to do anything special.*

- *The PHP superglobal variables are:*
  - *$GLOBALS*
  - *$_SERVER*
  - *$_REQUEST*
  - *$_POST*
  - *$_GET*
  - *etc.*

PHP $_GET
PEMROGRAMAN WEB II

- *PHP $_GET can also be used to collect form data after submitting an HTML form with method="get".*

- *$_GET can also collect data sent in the URL.*

```
send.php

<html>
<body>

<a href="catch.php?subject=PHP&web=ukrida.ac.id">Test $_GET</a>

</body>
</html>
```

PHP $_GET
PEMROGRAMAN WEB II

- *PHP $_GET can also be used to collect form data after submitting an HTML form with method="get".*

- *$_GET can also collect data sent in the URL.*

catch.php

```
<html>
<body>

<?php
echo "Study " . $_GET['subject'] . " at " . $_GET['web'];
?>

</body>
</html>
```

PHP - SWITCH STATEMENT
PEMROGRAMAN WEB II

We can use the switch statement to perform different actions based on different conditions.

Syntax:

```
switch (n) {
    case label1:
        //code to be executed if n=label1;
        break;
    case label2:
        //code to be executed if n=label2;
        break;
    case label3:
        //code to be executed if n=label3;
        break;
    ...
    default:
        //code to be executed if n is different from all labels;
}
```

PHP - SWITCH STATEMENT
PEMROGRAMAN WEB II

■ *Example:*

```php
<?php
$favcolor = "red";

switch ($favcolor) {
  case "red":
    echo "Your favorite color is red!";
    break;
  case "blue":
    echo "Your favorite color is blue!";
    break;
  case "green":
    echo "Your favorite color is green!";
    break;
  default:
    echo "Your favorite color is neither red, blue, nor green!";
}
?>
```

■ *Use break to prevent the code from running into the next case automatically.*

■ *The default state ment is used if no match is found.*

PHP INCLUDE FILES & SWITCH STATEMENT
AKTIVITAS LAB 1

How to combine PHP include files & switch statement to add web consistency? Let's do the Lab Activity!

PHP INCLUDE FILES & SWITCH STATEMENT
AKTIVITAS LAB 1

1. Buat sebuah file *index.php* dengan struktur sebagai berikut:

```html
<!DOCTYPE html>
<html>
    <head></head>
    <body>
        <div class="container">
            <nav> </nav>
            <section> </section>
            <footer> </footer>
        </div>
    </body>
</html>
```

PHP INCLUDE FILES & SWITCH STATEMENT

AKTIVITAS LAB 1

2. *Untuk elemen yang merupakan framework akan kita pindahkan ke file terpisah pada folder framework:*

```
<!DOCTYPE html>
<html>
    <?php include "framework/html_head.html"; ?>
    <body>
        <div class="container">
            <?php include "framework/nav.php"; ?>
            <section> </section>
            <?php include "framework/footer.php"; ?>
        </div>
    </body>
</html>
```

PHP INCLUDE FILES & SWITCH STATEMENT
AKTIVITAS LAB 1

3. *Untuk file **html_head.html** lengkapi dengan sintaks berikut:*

```html
<head>
    <title>WP1 - Belajar Navigasi Webpage</title>

    <!--Bootstrap 5 CDN-->
    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min.css"
    rel="stylesheet" integrity="sha384-
    EVSTQN3/azprG1Anm3QDgpJLlm9Nao0Yz1ztcQTwFspd3yD65VohhpuuCOmLASjC"
    crossorigin="anonymous">
    <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/js/bootstrap.bundle.min.js"
    integrity="sha384-MrcW6ZMFYlzcLA8Nl+NtUVF0sA7MsXsP1UyJoMp4YLEuNSfAP+JcXn/tWtIaxVXM"
    crossorigin="anonymous"></script>
</head>
```

PHP INCLUDE FILES & SWITCH STATEMENT
AKTIVITAS LAB 1

4. *Untuk file **footer.php** lengkapi dengan sintaks berikut:*

```
<footer class="bg-light text-center py-3">
    &copy;
    <?php echo date('Y'); ?> Web Programming 1 –
    Universitas Kristen Krida Wacana
</footer>
```

5. *Untuk file **nav.php** lengkapi dengan sintaks berikut:*

```
<nav class="navbar navbar-expand-lg navbar-light bg-light">
 <div class="container-fluid">
  <a class="navbar-brand" href="index.php"><img src="images/ukrida.png"></a>
  <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-
target="#navbarSupportedContent" aria-controls="navbarSupportedContent" aria-
expanded="false" aria-label="Toggle navigation">
   <span class="navbar-toggler-icon"></span>
  </button>
  <div class="collapse navbar-collapse" id="navbarSupportedContent">
   <ul class="navbar-nav me-auto mb-2 mb-lg-0">
    <li class="nav-item">
     <a class="nav-link active" aria-current="page" href="index.php">Home</a>
    </li>
    <li class="nav-item">
     <a class="nav-link" href="index.php?page=fak">Fakultas</a>
    </li>
    <li class="nav-item">
     <a class="nav-link" href="index.php?page=ps">Program Studi</a>
    </li>
    <li class="nav-item">
     <a class="nav-link" href="index.php?page=mhs">Mahasiswa</a>
    </li>
   </div>
  </div>
</nav>
```
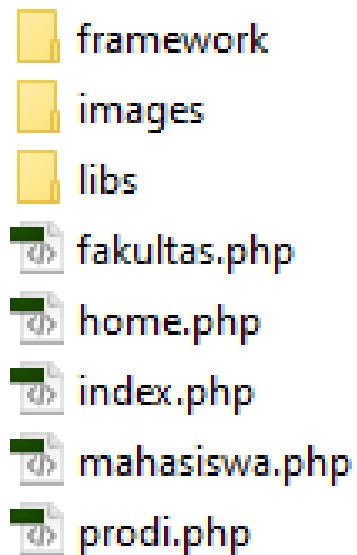
*) Sintaks ini merupakan modifikasi dari struktur nav Bootstrap

6. Selanjutnya silahkan untuk membuat file **home.php, fakultas.php, prodi.php** dan **mahasiswa.php** dan letakkan di root sehingga struktur project menjadi seperti berikut:

*) Folder **libs** bisa digunakan untuk meletakkan file resource lainnya seperti CSS.

Untuk setiap file yang dibuatkan isikan dengan konten yang saling berbeda.

7. *Selanjutnya pada file **index.php** untuk element section tambahkan sintaks PHP berikut dan jalankan.*

```
…
<section>
    <?php
        $content;
        $mod="";

        if(isset($_GET['page'])) $mod = $_GET['page'];

        switch ($mod) {
            case "fak" : $content="fakultas.php";  break;
            case "ps" : $content="prodi.php"; break;
            case "mhs" : $content="mahasiswa.php"; break;
            default : $content="home.php";
        }
        include($content);
    ?>
</section>
…
```