



Information Technology Program  
Faculty of Engineering  
Udayana University



# Web Programming: **PHP & MySQL**

by: I Putu Arya Dharmaadi, S.T., M.T.



# Client Side



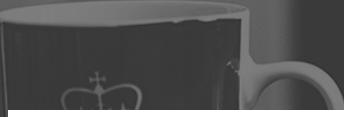
# Server Side





# What is PHP?

“a server scripting language for making **dynamic** Web pages and **processing information** in a server”



```
<!DOCTYPE html>
<html>
  <head>
    <title>Latihan</title>
  </head>
  <body>
    <h1>
      <?php
        $myname = "Arya Dharmaadi";
        echo "Hello " . $myname;
      ?>
    </h1>
  </body>
</html>
```





# Starting PHP



# Best Practice to **Start PHP**

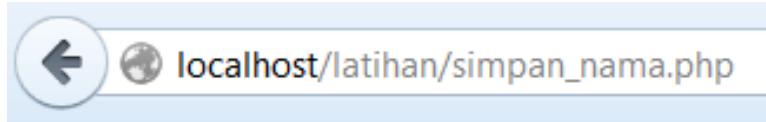


XAMPP

1. Install XAMPP



2. Create a new folder project  
in xampp > htdocs



Haloo Arya Dharmaadi

Hobimu adalah **Renang**

Terima kasih



3. Open a browser and type  
`http://localhost/foldername/filename`





# PHP Features



# What Need You **Know** about PHP?



- an acronym for "**PHP: Hypertext Preprocessor**"
- widely-used, **open source** scripting language
- PHP files can contain **text, HTML, CSS, JavaScript**, and **PHP code**
- PHP code is **executed on the server**,  
and **the result** is returned to the browser as **plain HTML**



# Some Often Used **PHP Functions**



```
<?php  
    $myname = "Arya Dhamaadi";  
    echo "Hello " . $myname;  
    echo strlen("Hello world!"); // outputs 12  
    echo str_word_count($myname); // outputs 2  
    echo strpos("Hello world!", "world"); // outputs 6  
?>
```



# Array



```
<?php  
    $cars = array("Volvo", "BMW", "Toyota");  
    echo "I like " . $cars[0] . " and " . $cars[2];  
    echo count($cars);  
  
    $age[ 'Peter' ] = "35";  
    $age[ 'Ben' ] = "37";  
    $age[ 'Joe' ] = "43";  
    echo "Peter is " . $age[ 'Peter' ] . " years old.";  
?>
```



# Function



```
<?php  
    function familyName($fname, $year) {  
        echo "$fname Refsnes. Born in $year <br>";  
    }  
  
    familyName("Hege", "1975");  
    familyName("Stale", "1978");  
    familyName("Kai Jim", "1983");  
?>
```



# Object Oriented

```
<?php
    class Fruit {
        // Properties
        public $name;
        public $color;

        // Methods
        function set_name($name) {
            $this->name = $name;
        }
        function get_name() {
            return $this->name;
        }
        function print_name() {
            echo $this->name;
        }
    }

    $apple = new Fruit();
    $banana = new Fruit();
    $apple->set_name('Apple');
    $banana->set_name('Banana');

    echo $apple->get_name();
    echo "<br>";
    $banana->print_name();
?>
```



# Include / **Require** File



- **Takes** all the text/code/markup that exists in the specified file and **copies** it into the file that uses the include/require statement.
- If the file is not found:
  - **require** will produce a **fatal error**
  - **include** will only produce a **warning**



# Include / **Require** File (2)

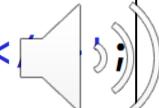


*menu.php*

```
<?php
    echo '
        <a href="/default.asp">Home</a> -
        <a href="/html/default.asp">HTML Tutorial</a> -
        <a href="/css/default.asp">CSS Tutorial</a>
    ';
?>
```

*halaman\_utama.php*

```
<div class="menu">
    <?php
        require 'menu.php';
        echo '<a href="default.asp">PHP Tutorial</a>';
    ?>
</div>
```

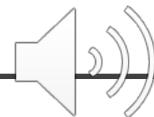


# Example of PHP **Main Page**

```
...
<body>
    <?php
        require "my_table.php";

        $obj_my_table = new MyTable();

        $obj_my_table -> createTable();
    ?>
</body>
...
```





# PHP & HTML Form



# **Input Data** into PHP



- Use HTML form to input data into PHP
- Users fill data on an HTML Form, then we create a PHP file to receive and process the data



# Input Data Example



File: input\_nama.html

```
<html>
<head>
    <title>My Form</title>
</head>
<body>
    <form action="simpan_nama.php" method="post">
        Nama : <input type="text" name="namaku"><br>
        Hobi : <input type="text" name="hobi"><br>
        <input type="submit" name="submit" value="Kirim">
    </form>
</body>
</html>
```



File:  
simpan\_nama  
.php

```
<html>
<head>
    <title>Lihat Hasil</title>
</head>
<body>
    <?php
        $namaku = $_POST['namaku'] ;
        $hobi = $_POST['hobi'] ;
    ?>
    <p>
        Haloo <?php echo $namaku; ?>
    </p>
    <p>
        Hobimu adalah <b> <?php echo $hobi; ?></b>
    </p>
    <p>Terima kasih</p>
</body>
</html>
```





# PHP & MySQL

How to insert data into database



# Database **Preparation**



- Make sure your MySQL database is running
- Assumed that you created database with name “Latihan”
- Create a table with name “Registrasi” with 2 fields, those are “nama” and “hobi”



# 1. Create Database Connection



*File name: database\_connection.php*

```
1  <?php
2      $servername = "localhost";
3      $username = "root";
4      $password = "";
5      $dbname = "latihan";
6
7      // Create connection
8      $conn = new mysqli($servername, $username, $password, $dbname);
9
10     // Check connection
11    ▼ if ($conn->connect_error) {
12        die("Connection failed: " . $conn->connect_error);
13    }
14 ?>
```



## 2. Insert the Data into **Prepared Statement**

*File name: simpan\_registrasi.php*

```
1 <?php
2     require "database_connection.php";
3
4     $namaku = $_POST['namaku'];
5     $hobi = $_POST['hobi'];
6
7     // prepare and bind
8     $stmt = $conn->prepare("INSERT INTO registrasi (nama, hobi) VALUES (?, ?)");
9     $stmt->bind_param("ss", $namaku, $hobi);
10
11    $stmt->execute();
12
13    echo "New records created successfully";
14    echo '<br><button onclick="history.go(-1);">Kembali </button>';
15
16    $stmt->close();
17    $conn->close();
18 ?>
```



### 3. Set the HTML Form **Action** to the **PHP file**



*File name: input\_nama.html*

```
<html>
<head>
    <title>My Form</title>
</head>
<body>          simpan_registrasi.php
    <form action="simpan_nama.php" method="post">
        Nama : <input type="text" name="namaku"><br>
        Hobi : <input type="text" name="hobi"><br>
        <input type="submit" name="submit" value="Kirim">
    </form>
</body>
</html>
```



# NOTE!

- Make sure all web files, such as HTML, Javascript, CSS, and PHP are saved in same directory in htdocs



# Discussion

Any Question?



# REFERENCES

