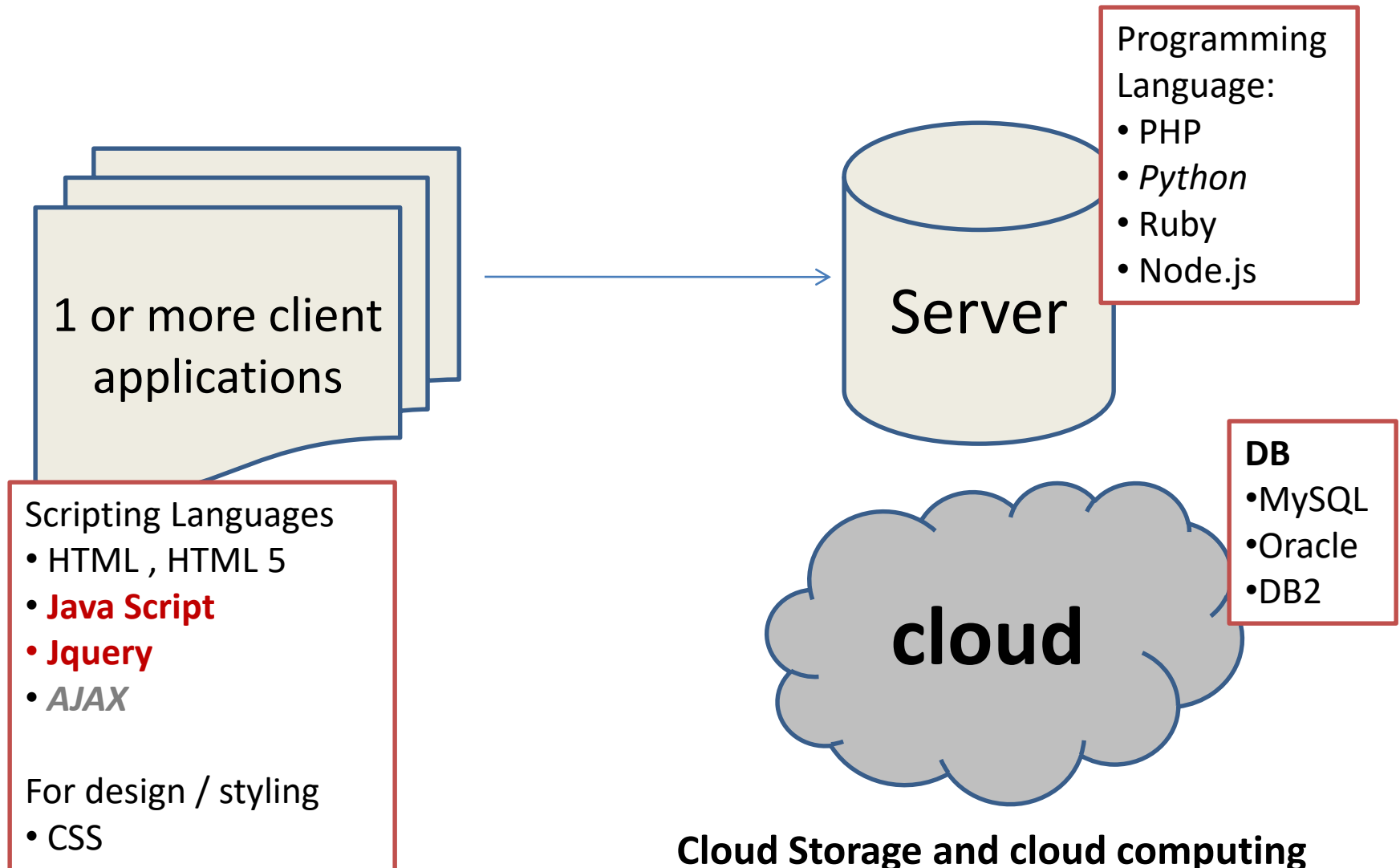# Introductory workshop on PHP-MySQL
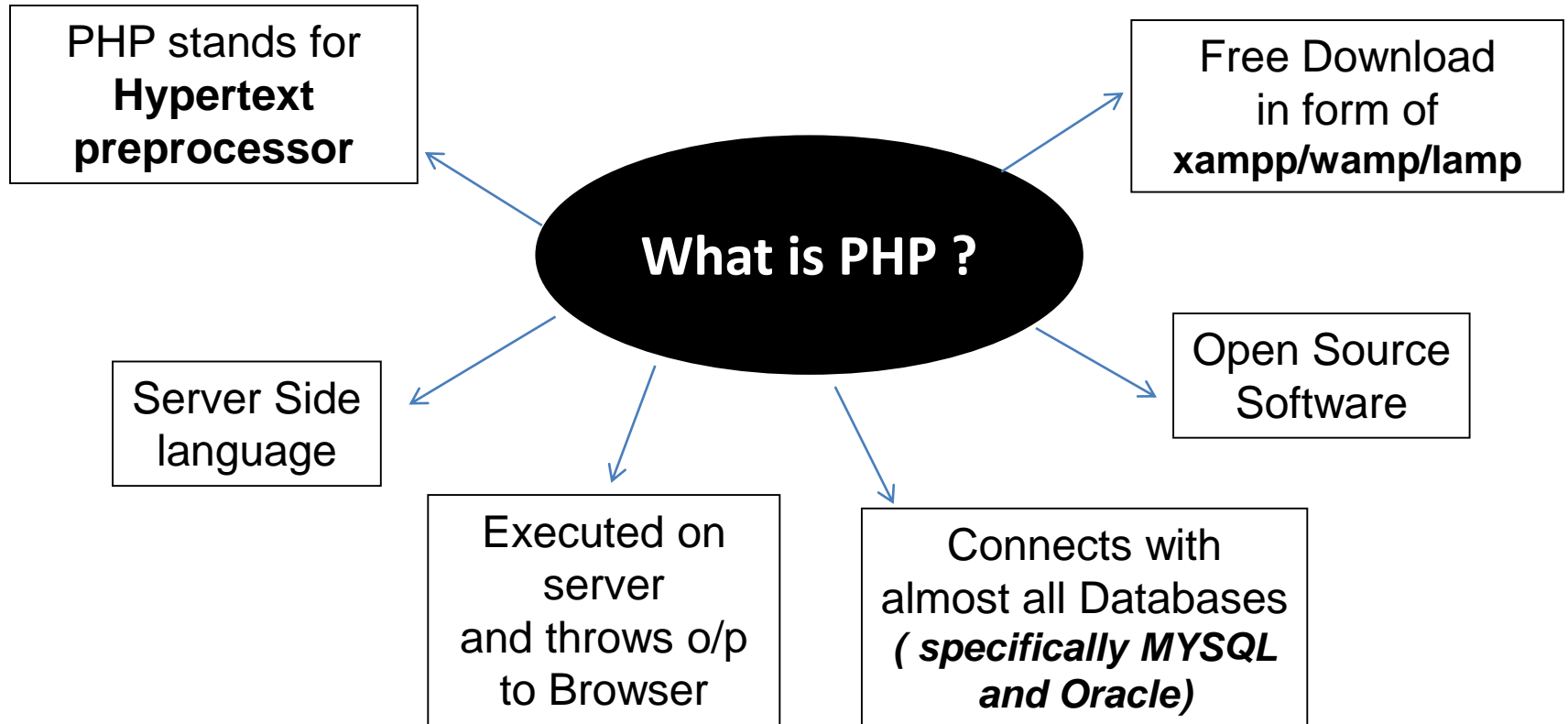

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Full Stack development : UI + Server Side

1 or more client applications

Server

Programming Language:
• PHP
• *Python*
• Ruby
• Node.js

DB
•MySQL
•Oracle
•DB2

cloud

Scripting Languages
• HTML , HTML 5
• **Java Script**
• **Jquery**
• *AJAX*

For design / styling
• CSS

Cloud Storage and cloud computing

Module 1 : Basics of PHP

PHP stands for **Hypertext preprocessor**

Free Download in form of **xampp/wamp/lamp**

What is PHP ?

Server Side language

Open Source Software

Executed on server and throws o/p to Browser

Connects with almost all Databases *(specifically MYSQL and Oracle)*

Installing WAMP / XAMPP Server

Download xampp from http://sourceforge.net/projects/xampp/

Or visit **monster.suven.net   or   monster.suvenconsultants.com**

After installation following XAMPP Control Panel will appear.

Select 3 services
1. **Apache**
2. **MySql**
3. **FileZilla**

Start them.

When the services come to Run state , you would see Like this
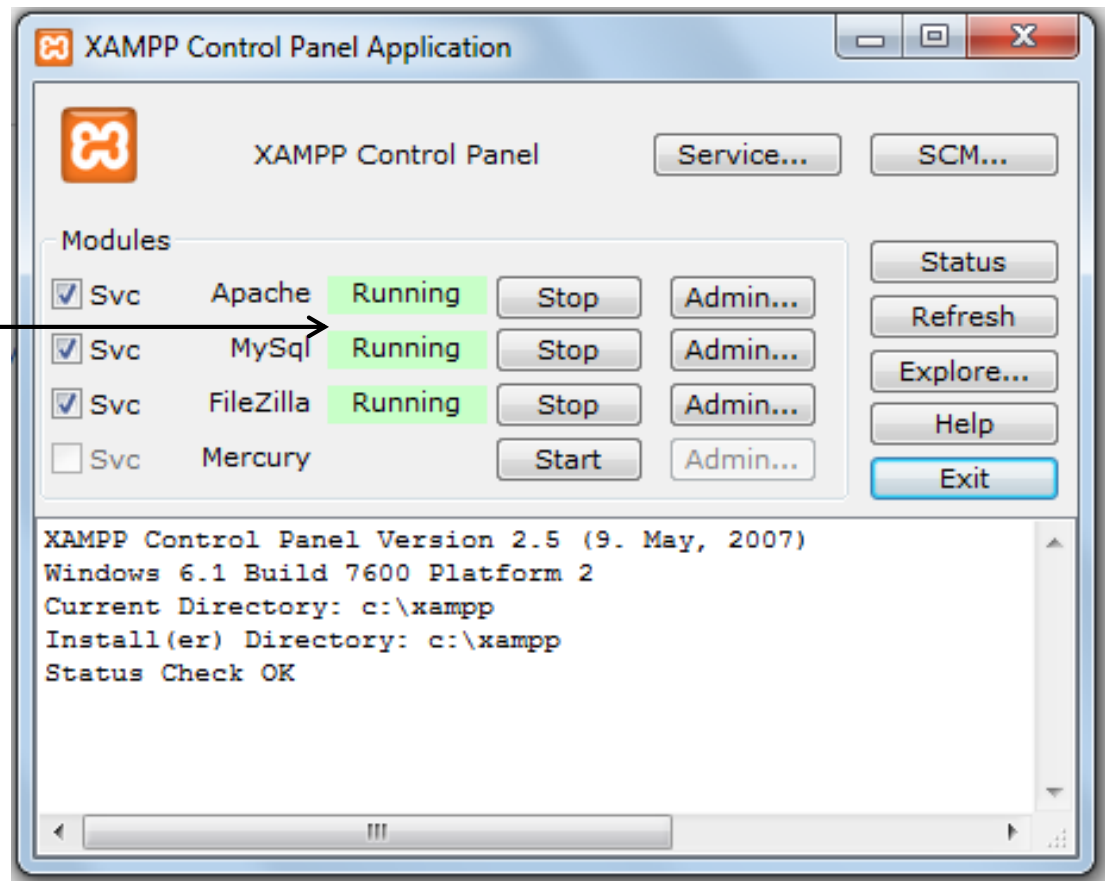
Open browser → type localhost → see if the xampp or wamp home page opens or not.

Steps to code "hello.php" file and test server :

- **Open Notepad or Notepad++**

- **Type simple php script**

    <?php

    Echo " hi all from suven consultants";

    ?>

- **Save this file as .php in either**

    - **'htdocs' (for xampp) or 'www ' (for wamp) folder**

Create a test folder in htdocs or www and place all our php files their. In browser type localhost/test/hello.php

Open browser → type localhost/hello.php → see o/p

Now check whether the PHPMyAdmin is running ?
This is needed for MySQL (DB work)

Steps :
1. Open browser

2. Type localhost

3. See left menu

4. Click on PHPMyAdmin

5. **This kind of interface should open.**

E.g.: 1:

<form action="test.php" method="get" name="f1">
Enter your Login Id:<input type="text" name="lid"/><hr>
Enter your password:<input type="password" name="pwd"/>
Enter your Email:<input type="email" name="mailid"/>
<input type="submit" value="click me"/>
</form>

Explain the attributes action, method , name in the <form> tag ?

// test.php   v1

// test.php   v3 -> $_POST[]

// test.php   v2 -> $_GET[]

// test.php   v4 -> $_REQUEST[]

Example : One of the most important module on a ecommerce site.

CAPTCHA generation

HTML contact form with CAPTCHA

What is CAPTCHA ?

CAPTCHA is a randomly generated alpha numeric image. It improves security of the login form.

Need for it :

There are spammers and hackers who are looking for exploitable web forms. It is essential to secure our form against all 'holes' that those hackers are searching for.

How does the spammers/hackers exploit HTML forms?

a) **As a relay for sending bulk unsolicited emails.**

b) **Prevent the use of Spam bots.**   **What are Spam Bots ?**

Form_with_captcha.php is 2-tier programming. Justify ?

Answer questions on : form_with_captcha.php, captcha.php, submit.php ?

1	**Purpose of Captcha Code ?**
2	<td><img src="captcha.php"></td>
3	Purpose of **session_start();**
4	int **mt_rand** (int $min , int $max)
5	$image_p = **imagecreate($width, $height);**

6	$black = imagecolorallocate($image_p, 0, 0, 0); **// 1st call – bg colour**
7	$white = imagecolorallocate($image_p, 255, 255, 0); **// 2nd call – fg colour**
8	imagestring($image_p, 14, 35, 10, $text, $white); **// 1. image 2. fontSize 3. x coordinate 4. y coordinate 5. text 6. colour_of_text**
9	imagejpeg($image_p, null, 80); // 1. image source 2. file path mostly kept null* 3. quality (0 – worst to 100 - best) ***if the file just created , as to be stored at some location then specify the path.**
10	if($_POST["code"]==$_SESSION['vercode'])

Module 2 : Basics of Sessions

Objectives :
1> What is a session ?
2> How to see and manage them ?

PHP Sessions

Stored in Browser

A PHP session variable is used to store information about, or settings for a user session. Session variables hold information about one single user, and are available to all pages in one application.

Session - Introduction

When you are working with an application, you open it, do some changes and then you close it. This is much like a Session. The computer knows who you are. It knows when you start the application and when you end. But on the internet there is one problem: the web server does not know who you are and what you do because the HTTP address doesn't maintain state.

A PHP session solves this problem by allowing you to store user information on the server for later use (i.e. username, shopping items, etc). However, session information is temporary and will be deleted after the user has left the website. If you need a permanent storage you may want to store the data in a database.
Sessions work by creating a unique id (UID) for each visitor and store variables based on this UID. The UID is either stored in a cookie or is propagated in the URL.

Starting a PHP Session

We must first start up the session before we can store user information in PHP session.

Note: The session_start() function must appear BEFORE the <html> tag.

```
<?php session_start(); ?>
```

We can store session variables by using following piece of code:

// store session data
```
$_SESSION['username']=$_REQUEST['username'];
$_SESSION['fname']=$_REQUEST['fname'];
```

echo "Welcome " . $_SESSION['fname']; **// using or accessing a session**

Destroying a PHP Session

//following code will destroy the session set by session_start()

session_destroy(); // note : would clear session id only.

and use unset($_SESSION[variable]) to clear all session variables.

After destroying the session , does the session variables immediately clears ?

No. Justify.

Module 3 : Basics of Database Connectivity

Objectives :

1> Basics of Database ?

2> How to connect Php with MySQL ?

3> Code a Login-Logout module

4> Understand importance of Session management in Login-Logout

List the steps for starting a login-Logout session. (SESSION MANAGEMENT)

1. Create a simple html page to accept the user name and password. On submitting a php file should be called.

2. In the php file first **do a database connection*** query to find username and password in the Database. Check whether they are the same as entered by the user , if yes then proceed else show error message.

3. Start a session after validating username and password.

4. For confirmation print the session id and some welcome message.

---

*Steps for DB connectivity :

Step 1: data base connectivity. **($con=mysqli_connect('localhost','root','');)**
Step 2: select the database over the connection object.
(mysqli_select_db('user_info',$con);)
Step 3: Fire query over connection and the data base.
($result=mysqli_query($sql,$con))
Step 4: Fetch row by row from result set. **($row=mysqli_fetch_assoc($result);)**

Name : login.html (This is (tier 1))

```
<html>
<head>
        <title>Session variables</title>
</head>
<body>
<p>User login</p>
<form action="check_user.php" method="post">
<input type="email" name="email"/> :Email <br /><br />
<input type="password" name="password"/> :Password <br />
<input type="submit" value="submit"/>
</form>
</body>
</html>
```

```php
<?php
$con=mysqli_connect('localhost','root',''); // connects to the DB
mysqli_select_db($con, 'user_info'); // selects one DB out of many DBs
$email=$_REQUEST['email'];          // fetch data from login.html file
$password=$_REQUEST['password'];
$sql="SELECT * FROM user where email='$email' and password='$password'";
$result=mysqli_query($con, $sql) or die(mysqli_error());    // fire query over user table

if(mysqli_num_rows($result)>0)  {
          //user exist , hence set session variables
          $row=mysqli_fetch_assoc($result);  // fetch a record
          session_start();  // start the session to store session variables
          $_SESSION['user_status']='logged_in';  // writing data into session array
          $_SESSION['user_name']=$row['name'];

          echo"<h4>Session variables have been set</h4>";
          echo "Welcome ". $_SESSION['user_name'] . "<br />";
          echo "<a href='logout.php'/>Logout</a>";
          mysqli_close($con);
}
else {
echo"<h2>User not found</h2> You might have entered invalid user information."
}
```

```php
<?php
session_start(); // permission to use Session variables

unset($_SESSION['user_status']);  // unsets or clears the Sess var
unset($_SESSION['user_name']);

session_destroy();  // clears the Sess Id

echo "thank you , vst again";
echo "<br>";
echo "<a href='login.html'/>LogIn Again</a>";
?>
```

Why should we unset Session Variables before destroying the Session during logging Out ?

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