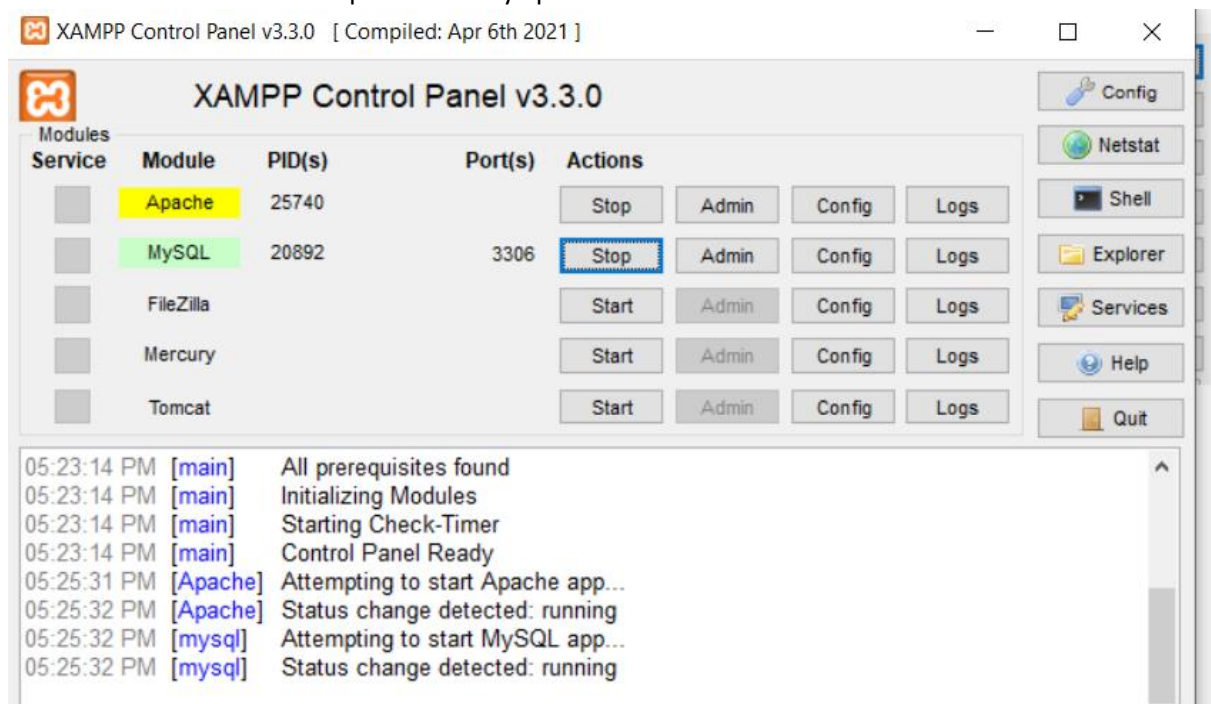# First Application using HTML, CSS and PHP deployed on Xampp Server

Installation of Xampp Server
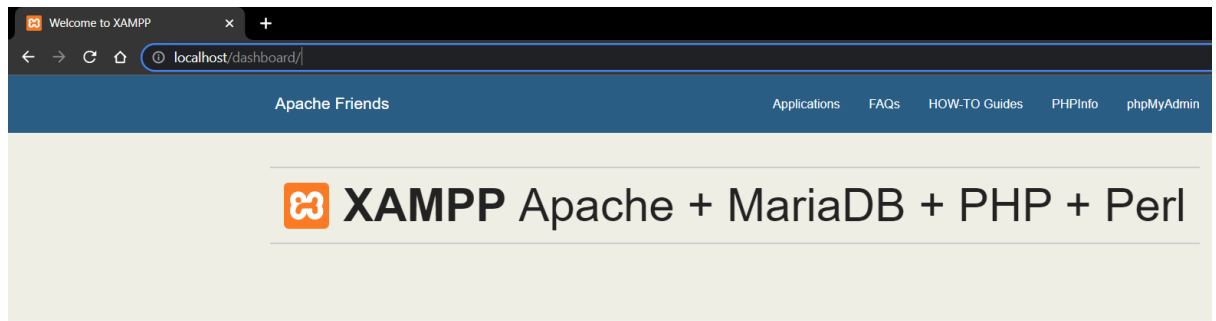
- Download the executable from "https://www.apachefriends.org/index.html"
- Install the Xampp server from the downloaded file.
- Control Panel of Xampp looks like:

- Click start for both Apache and mysql

- Then go to the browser and type localhost in the address bar. If installation and xampp server is running as expected, then you should see a welcome page.

Welcome to XAMPP for Windows 8.1.1

You have successfully installed XAMPP on this system! Now you can start using Apache, MariaDB, PHP and other components. You can find more info in the FAQs section or check the HOW-TO Guides for getting started with PHP applications.

- Xampp server hosts file from its installation directory, particularly htdocs directory "C:\xampp\htdocs".
- All the related files are stored in this directory.
- I have created a directory called test in "C:\xampp\htdocs".

Creating Form in HTML

- Start by creating a simple HTML form in a file named index.html.
- Give Title to the HTML page
- In the body create a form tag with action as blank and method as post.
- If you want, you can create a some heading before the form.
- In the form create the below fields with the mentioned types:
  - Input tag, name, type: text
  - Input tag, age, type: text
  - Input tag, gender, type: text
  - Input tag, email, type: email
  - Input tag, phone, type: phone
  - Text area tag, other
  - Create a button with label submit on it and class btn.
- Optionally you can provide placeholders for these fields.
- I have put the whole page from the heading to the button under a container class under div tag
- It would appear like this:

```
5 _index.html > ⬡ html > ⬡ head > ⬡ title
1   <!DOCTYPE html>
2   <html lang="en">
3   <head>
4       <meta charset="UTF-8">
5       <meta http-equiv="X-UA-Compatible" content="IE=edge">
6       <meta name="viewport" content="width=device-width, initial-scale=1.0">
7       <title>Test PHP</title>
8       <link rel="stylesheet" href="test.css">
9   </head>
10  <body>
11      <img class="bg" src="bg2.jfif" alt="University of Windsor">
12      <div class="container">
13          <h1>Reserach</h1>
14          <p>Creating an application using PHP</p>
15          <p class="submitmsg">Thanks for submitting your form</p>
16          <form action="index1.php" method="post">
17              <input type="text" name="name" id="name" placeholder="Enter name">
18              <input type="text" name="age" id="age" placeholder="Enter age">
19              <input type="text" name="gender" id="gender" placeholder="Enter gender">
20              <input type="email" name="email" id="email" placeholder="Enter Email">
21              <input type="phone" name="phone" id="phone" placeholder="Enter phone">
22              <textarea name="other" id="other" cols="30" rows="10" placeholder="Enter any other info"></textarea>
23              <button class="btn">Submit</button>
24          </form>
25      </div>
26  </body>
27  </html>
```

- Create a p tag with a thank you message that will appear after the successful submission of the form with a class name submitmsg.
- Under the body tag and outside the div tag use img tag to put a background image for the form with a class bg.

Applying CSS

- Create a file test.css within the same directory as the index.html and include it in the idex.html file as "<link rel="stylesheet" href="test.css">" in the head section of the file.
- I have applied margin and padding of 0px and box sizing as border-box to the whole style sheet.

```css
*{
    margin: 0px;
    padding: 0px;
    box-sizing: border-box;
}
```

- To the container class, mention max-width as 80%
- Padding 34px
- Margin as auto

```css
.container{
    max-width: 80%;


    padding: 34px;
    margin: auto;
}
```

- Next style the h1 and p tag under the container class as

```css
.container h1, p{
    text-align: center;
    color: □rgb(24, 18, 20);
}
```

- Next style the p tag with font-size 20px

```css
p{
    font-size: 20px;
}
```

- Now style the input and text area tag as follows

```css
input, textarea{
    border: 2px solid □black;
    border-radius:7px;
    outline: none;
    font-size: 16px;
    width: 80%;
    margin: 11px auto;
    padding: 7px;
}
```

- Next step is to style the form tag

```css
form{
    display: flex;
    align-items: center;
    justify-content: center;
    flex-direction: column;
}
```

- Style the btn class of the button

```css
.btn {
    color: □black;
    background-color: ■white;
    padding: 7px;
    font-size: 15px;
    border-radius: 14px;
    cursor: pointer;
}
```

- Style bg class as below:

```css
.bg{
    width: 100%;
    position: absolute;
    z-index: -1;
}
```

- Provide color attribute as white to the submitmsg class.

```css
.submitmsg {
    color: white;
}
```

Implementing PHP:

- In the action attribute, you can put <name of the file>.php. I have used the same file containing the HTML code. I have renamed the file from index.html to index.php.
- First part is to get the database connection parameters.
  - Server name
  - Username
  - Password

```php
// set connection variables
$server = "localhost";
$username = "root";
$password = "";
```

- I have used mysqli_connect() to create the connection with the database by passing the database parameters.

```php
// create a database connection
$con = mysqli_connect($server, $username, $password);
```

- Then verify if the connection is successful or not

```php
// check for connection success
if (!$con){
    die("Could not connect to db".mysqli_connect_error());
}
```

- Then get the variables from the HTML form. We have used post method in the form. They are transferred as post variables.

```php
// collect post variables
$name = $_POST['name'];
$gender = $_POST['gender'];
$age = $_POST['age'];
$email = $_POST['email'];
$phone = $_POST['phone'];
$other = $_POST['other'];
```

- Create the sql query to insert data into the database.

```php
$sql = "INSERT INTO `phpapp`.`app` (`name`, `age`, `gender`, `email`, `phone`, `other`) VALUES ('$name', '$age', '$gender', '$email', '$phone', '$other');";
```

- Use query(), to execute the insert query on the database.

```php
// execute the query
if ($con->query($sql) == true) {
    // echo "Successfully inserted";

    // Flag for successful insertion
    $insert = true;
}
else {
    echo "ERROR: $sql <br> $con->error";
}
```

- In the end close the database connection

```php
// close the database connection
$con->close();
```

- I have used isset() on the post variable name from the HTML form. Isset will check if the name variable is set or not. If 'name' has not been sent from the HTML form, it will not proceed to the php code.

```php
<?php
$insert = false;
if(isset($_POST['name'])){
    // set connection variables
    $server = "localhost";
    $username = "root";
    $password = "";

    // create a database connection
    $con = mysqli_connect($server, $username, $password);

    // check for connection success
    if (!$con){
        die("Could not connect to db".mysqli_connect_error());
    }

    // collect post variables
    $name = $_POST['name'];
    $gender = $_POST['gender'];
    $age = $_POST['age'];
    $email = $_POST['email'];
    $phone = $_POST['phone'];
    $other = $_POST['other'];

    $sql = "INSERT INTO `phpapp`.`app` (`name`, `age`, `gender`, `email`, `phone`, `other`) VALUES ('$name', '$age', '$gender', '$email', '$phone', '$other');";

    // echo $sql;

    // execute the query
    if ($con->query($sql) == true) {
        // echo "Successfully inserted";

        // Flag for successful insertion
        $insert = true;
    }
    else {
        echo "ERROR: $sql <br> $con->error";
    }

    // close the database connection
    $con->close();
}
?>
```

Deployment on CS php Direct Admin

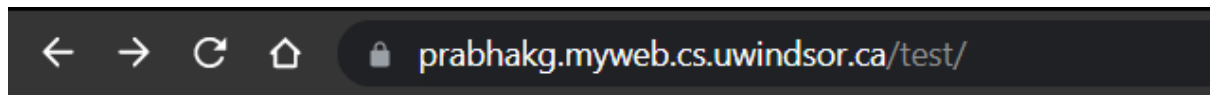- I have also deployed this application on CS php Direct Admin.
  - https://prabhakg.myweb.cs.uwindsor.ca/first/

- I have also created a sample app to test the database connection on the CS php Direct Admin.

- https://prabhakg.myweb.cs.uwindsor.ca/test/

Hello World! by Girik

Enter name | Submit

- To host these applications on the CS php Direct Admin, I have taken reference form this document (https://cezeife.myweb.cs.uwindsor.ca/courses/60-415/databases/Webapplication_userguide.pdf)

References

1. https://www.w3schools.com/php/func_mysqli_connect.asp
2. https://www.w3schools.com/php/func_mysqli_query.asp
3. https://cezeife.myweb.cs.uwindsor.ca/courses/60-415/databases/Webapplication_userguide.pdf