

IWPL - Assignment No. 4

→ Aim : Implement PHP and Ajax

→ Problem Statement : Design Login Application using PHP and add essence of AJAX in it.

→ Theory:

Q.1.] What is PHP? What is AJAX?

Ans i] PHP is an acronym for "PHP: Hypertext Preprocessor"

ii] PHP is a widely-used, open-source scripting language

iii] PHP scripts are executed on the server

iv] PHP is free to download and use

v] PHP files can contain text, HTML, CSS, JS & PHP code

vi] PHP code is executed on the server, and the result is returned to the browser as plain HTML.

i] AJAX is an acronym for "Asynchronous Javascript And XML"

ii] It is not a programming language

iii] It just uses a combination of:-

a] A browser built-in XMLHttpRequest Object

b] ~~JS~~ Javascript and HTML DOM

~~JS~~

Q.2] What are the advantages of PHP and Ajax?

Ans.

~~Advantages~~

Advantage of PHP:-

- Speed up custom web application development
- Simplify web development maintenance
- No need to write additional code
- Efficiently work with Databases
- Automate common web development tasks
- Protect websites from targeted security attacks
- Perform unit testing efficiently

Advantages of AJAX:-

- Improved User Experience
- Asynchronous processing
- Reduced server hits and network load
- Platform and architecture neutrality
- Multi-browser support
- Faster page renders and improved response times

Q.3] Explain PHP validation for login and password, Explain use of AJAX in your application

Ans.

code snippet (PHP):-

```

① $sql = "select id from admin where <condition>";
② $result = * mysqli_query($db, $sql);
③ $row = mysqli_fetch_array($result, MYSQLI_ASSOC);
④ $active = $row['active'];
⑤ $count = mysqli_num_rows($result);
⑥ if ($count == 1)
    header("location: welcome.php");
else
    $error = "login details invalid";

```

Line ① :- Sql statement to fetch corresponding record
 Line ② :- result query prepared
 Line ③ :- row fetched
 Line ④ :- active
 Line ⑤ :- no. of rows matched
 Line ⑥ :- If login id & pwd is correct, direct to welcome page
 Line ⑦ :- If no row found, display error message.

→ Use of AJAX in login application

- i] With AJAX you can directly check the entered credentials are correct or not in the MYSQL database without reloading whole page.
- ii] If the user is registered then direct the user to a home page otherwise display an error.

⇒ Conclusion:

Thus we studied the concepts of PHP and AJAX and also implemented a login application using them.