

Assignment No. 4

Aim : Implement PHP and AJAX.

Problem statement : Design Login Application using PHP and add essence of AJAX to it.

Theory

Q1] what is PHP? what is AJAX?

Ans-

- i) PHP is an acronym for "PHP: Hypertext Preprocessor".
- ii) PHP is widely used, open source scripting language.
- iii) PHP scripts are executed on the server.
- iv) PHP is free to download & use.
- v) PHP files can contain text, HTML, CSS, JS & PHP code.
- vi) PHP code is executed on the server & 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 programming language combination of
 - a) A browser built in XMLHttpRequest Object.
 - b) JavaScript and HTML DOM.

Q2] what are advantages of PHP and AJAX?

Ans-

Advantages of PHP :-

- a) Speed up custom web application development.
- b) Simplify web application maintenance.



- c) No need to write additional code.
- d) work with databases more efficiently
- e) Automate common web development tasks.
- f) Perform unit testing efficiently.
- g) Protect websites from targeted security attacks.

→ Advantages of AJAX :-

- a) Improved user experience
- b) Asynchronous processing
- c) Reduced server hits and network load.
- d) Platform and architecture neutrality.
- e) Multi-browser support.
- f) 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) :-

// username and password sent from form are stored in \$myusername and \$mypassword;

- 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 ");
- ⑦ else
\$error = " login name or password invalid ! " ;

- line 1 : Sql statement to fetch corresponding record.
- line 2 : result query prepared.
- line 3 : row fetched.
- line 4 : active
- line 5 : count No. of rows matched.
- line 6 : If login id & password is correct, direct to home 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 username & password are correct or not in MYSQL database without reloading the whole page.
- ii) If user is registered then direct the user to a home page otherwise display an error.

Conclusion :

Thus, I studied the concept of PHP and AJAX and also implemented login application using them.