**ASSIGNMENT NO. 7**

**TITLE**

Add dynamic web application essence using **PHP, AJAX** and **MySQL**.

**OBJECTIVES**

To understand the principles and methodologies of web based applications development process.

**PROBLEM STATEMENT**

Design and develop dynamic web application using PHP, AJAX and MySQL as a back-end for employee data with insert and view operations.

**OUTCOMES**

*Students should be able to,*

1. Develop web based application using suitable client side and server side web technologies.

2. Develop solution to complex problems using appropriate method, technologies, frameworks, web services and content management.

**SOFTWARE & HARDWARE REQUIREMENTS**

**Software:**

1. Ubuntu 64 bit / Windows XP.

2. XAMPP Server

**Hardware:**

Intel p4 Machine with 1GB ARM and 32GB HDD.

**THEORY-CONCEPT**

AJAX remains for Asynchronous JavaScript and XML. AJAX is another procedure for making better, speedier, and more intelligent dynamic web applications with the assistance of XML, HTML, CSS, and Java Script.

Ajax utilizes XHTML for content, CSS for introduction, alongside Document Object Model and JavaScript for dynamic substance show. Customary web applications transmit data to and from the server utilizing synchronous solicitations. It implies you round out a frame, hit submit, and get coordinated to another page with new data from the server. With AJAX, when you hit submit, JavaScript will influence a demand to the server, to decipher the outcomes, and refresh the present screen. In the purest sense, the client could never realize that anything was even transmitted to the server.

AJAX is an acronym for Asynchronous JavaScript and XML. It is a gathering of between related innovations like JavaScript, DOM, XML, HTML, CSS and so forth.

AJAX enables you to send and get information nonconcurrently without reloading the page. So it is quick.

AJAX enables you to send just essential data to the server not the whole page. So just profitable information from the customer side is steered to the server side. It makes your application intuitive and quicker.

AJAX speaks with the server utilizing XMLHttpRequest question. How about we endeavor to comprehend the stream of ajax or how ajax functions by the picture showed beneath.

AJAX communicates with the server using XML Http Request object. Let's try to understand the flow of ajax or how ajax works by the image displayed below:



**Figure: AJAX communication with the server using XML Http Request object**

As you can see in the above example, XML Http Request object plays an important role.

**TECHNOLOGY/TOOL**

AJAX, PHP and MySQL

**DESIGN/EXECUTION STEPS**

For the design purpose, html and CSS is to be used. For this, design part contains the GUI of web applications, how its looks like? When users going to use the web application.

**Install XAMPP and configure the PHP, MYSQL server.**

**CONCLUSION/ANALYSIS**

In this assignment, we have studied how to design and develop small web application using PHP

java script, ajax, XAMPP server with apache server and MySQL as backend.

**ORAL QUESTIONS**

1. What is AJAX? What are the advantages and disadvantages of Ajax?

2. What is jQuery?

3. How many TRIGGERS allows per table in mysql?

4. What is difference between COMMIT and ROLLBACK?

6. Whether jQuery HTML work for both HTML and XML documents?

7. What is the use of jQuery.ajax method ()?

8. What are Ajax applications?

9. How to control the duration of an Ajax request?

11. Which are the two methods used for cross domain Ajax calls?

12. What are all the technologies used by Ajax?

13. What is JSON in Ajax?

14. What are the difference between AJAX and Javascript?

15. How Ajax objects can be created?