**Experiment 6**

# **AIM:** Implement search functionality using Php and ajax

**THEORY:**

**AJAX**

AJAX stands for Asynchronous JavaScript and XML. AJAX is a new technique for creating better, faster, and more interactive web applications with the help of XML, HTML, CSS and Java Script

Conventional web application transmit information to and from the sever using synchronous requests. This means you fill out a form, hit submit, and get directed to a new page with new information from the server.

With AJAX when submit is pressed, JavaScript will make a request to the server, interpret the results and update the current screen. In the purest sense, the user would never know that anything was even transmitted to the server.

**PHP**

PHP is an acronym for "PHP: Hypertext Preprocessor"

PHP is a widely-used, open source scripting language

PHP scripts are executed on the server

PHP is free to download and use

PHP can generate dynamic page content

PHP can create, open, read, write, delete, and close files on the server

PHP can collect form data

PHP can send and receive cookies

PHP can add, delete, modify data in your database

PHP can be used to control user-access

PHP can encrypt data

PHP script can be placed anywhere in the document.

A PHP script starts with <?php and ends with ?>:

The default file extension for PHP files is ".php".

A PHP file normally contains HTML tags, and some PHP scripting code

**PROGRAM:**

**LIVE SEARCH PHP PART**

<?php

$xmlDoc=new DOMDocument();

$xmlDoc->load("links.xml");

$x=$xmlDoc->getElementsByTagName('link');

//get the q parameter from URL

$q=$\_GET["q"];

//lookup all links from the xml file if length of q>0

if (strlen($q)>0) {

  $hint="";

  for($i=0; $i<($x->length); $i++) {

    $y=$x->item($i)->getElementsByTagName('title');

    $z=$x->item($i)->getElementsByTagName('url');

    if ($y->item(0)->nodeType==1) {

      //find a link matching the search text

      if (stristr($y->item(0)->childNodes->item(0)->nodeValue,$q)) {

        if ($hint=="") {

          $hint="<a href='" .

          $z->item(0)->childNodes->item(0)->nodeValue .

          "' target='\_blank'>" .

          $y->item(0)->childNodes->item(0)->nodeValue . "</a>";

        } else {

          $hint=$hint . "<br /><a href='" .

          $z->item(0)->childNodes->item(0)->nodeValue .

          "' target='\_blank'>" .

          $y->item(0)->childNodes->item(0)->nodeValue . "</a>";

        }

      }

    }

  }

}

// Set output to "no suggestion" if no hint was found

// or to the correct values

if ($hint=="") {

  $response="no suggestion";

} else {

  $response=$hint;

}

//output the response

echo $response;

?>

**LIVE SEARCH LINK LIST PART**

<pages>

    <link>

        <title>7 HABBITS OF HIGHLY EFFECTIVE PEOPLE</title>

        <url>index.php</url>

    </link>

    <link>

        <title>ZERO TO ONE</title>

        <url>index.php</url>undefined

    </link>undefined

    <link>

        <title>ALIBABA</title>

        <url>index.php</url>undefined

    </link>undefined

    <link>

        <title>ELON MUSK</title>

        <url>index.php</url>undefined

    </link>undefined

    <link>

        <title>HOW TO THINK LIKE STEVE JOBS</title>

        <url>index.php</url>undefined

    </link>undefined

    <link>

        <title>$100 STARTUP</title>

        <url>index.php</url>undefined

    </link>undefined

    <link>

        <title>CHANAKYA NEETI</title>

        <url>index.php</url>undefined

    </link>undefined

    <link>

        <title>RICH DAD POOR DAD</title>

        <url>index.php</url>undefined

    </link>undefined

    <link>

        <title>THINK AND GROW RICH</title>

        <url>index.php</url>undefined

    </link>undefined

</pages>

**LIVE SEARCH JAVASCRIPT PART PART**

  function showResult(str) {

    if (str.length==0) {

      document.getElementById("livesearch").innerHTML="";

      document.getElementById("livesearch").style.border="0px";

      return;

    }

    var xmlhttp=new XMLHttpRequest();

    xmlhttp.onreadystatechange=function() {

      if (this.readyState==4 && this.status==200) {

        document.getElementById("livesearch").innerHTML=this.responseText;

        document.getElementById("livesearch").style.border="1px solid #A5ACB2";

      }

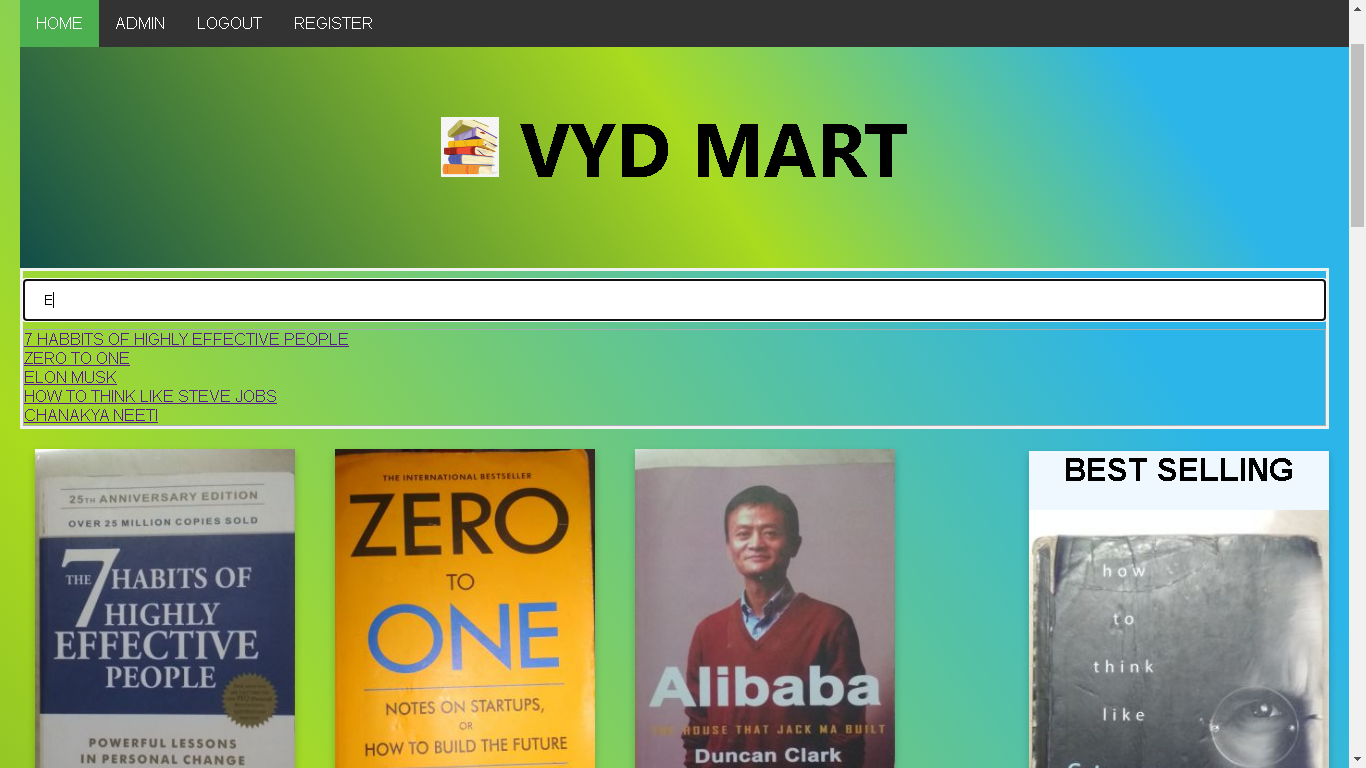
    }

    xmlhttp.open("GET","livesearch.php?q="+str,true);

    xmlhttp.send();

  }

**OUTPUT:**



**CONCLUSION**

Thus, implemented search functionality using Php and ajax