

Republic of Iraq
Ministry of Higher Education
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College of Sciences
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INTERNET SEARCH ENGINE

A project

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الاهداء

الى التي وهبتني بعد الحياه وواكبت مسيرتي والى
القلب الذي يدعو لي في السراء والضراء
الوالده نور عيني

الى الذي كان لي ذخرا والذي رافقتني وساعدني في
اتمام هذا الجهد اهدي له هذا الجهد والعطاء
الوالد الغالي

الى الذين كانوا لي سندا ورفاق عمري
اصدقائي

الى من علمني حرفا وملكني عبدا الى اساتذتي الكرام
اهديهم ثمره جهدي المتواضع

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Abstract

Internet search engine is a program designed to help find information stored on a computer system such as the World Wide Web (WWW), or a personal computer. Millions of people around the world use search engines and use regularly updated indexes to operate quickly and efficiently. This project design and implement a web site include a junior internet search engine searches especially in a computer science e-books .The project implemented by using HTML, JavaScript, PHP and MySQL.

Chapter 1

Chapter1

Introduction

1. The Internet

The **Internet** is a global system of interconnected computer networks that use the standard Internet Protocol Suite (TCP/IP) to serve billions of users worldwide. It is a *network of networks* that consists of millions of private, public, academic, business, and government networks, of local to global scope, that are linked by a broad array of electronic, wireless and optical networking technologies. The Internet carries a vast range of information resources and services, such as the inter-linked hypertext documents of the World Wide Web (WWW) and the infrastructure to support electronic mail.

2. The Website

A **website** (also written **Web site** or simply **site**) is a collection of related web pages containing images, videos or other digital assets. A website is hosted on at least one web server, accessible via a network such as the Internet or a private local area network through an Internet address also called URL. A web page is a document, typically written in plain text interspersed with formatting instructions of Hypertext Markup Language (HTML, XHTML).

3. Internet Search Engines

Search engines do not really search the World Wide Web (WWW) directly. Each one searches a database of web pages that it has harvested and cached. When use a search engine, always searching a somewhat stale copy of the real web page Figure 1 shown the Architecture of search engine

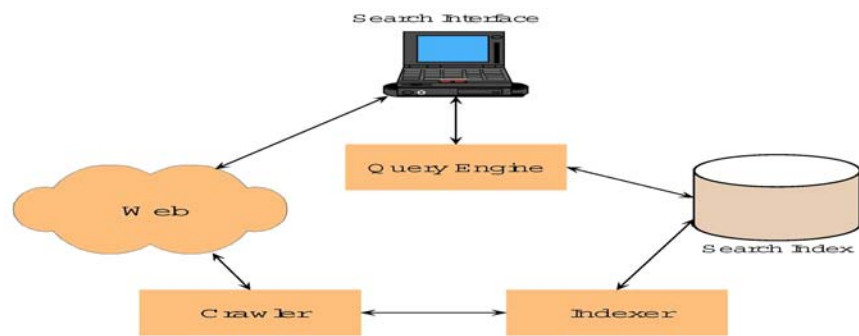


Figure (1): Architecture of Search Engine

Chapter2

Chapter 2

A tool used to execute this project:-

1. HTML

HTML originally stood for "Hyper Text Markup Language". HTML is one of the web sites design languages in internet but HTML used to design static web site in internet.

2. PHP

PHP originally stood for "Personal Home Page", it is now said to stand for "PHP: Hypertext Preprocessor".

PHP is a general-purpose scripting language originally designed for web development to produce dynamic web pages. For this purpose, PHP code is embedded into the HTML source document and interpreted by a web server with a PHP processor module, which generates the web page document. It also has evolved to include a command-line interface capability and can be used in standalone graphical applications. PHP can be deployed on most web servers and as a standalone interpreter, on almost every operating system and platform free of charge. PHP is installed on more than 20 million websites and 1 million web servers.

PHP was originally created by Rasmus Lerdorf in 1995. The main implementation of PHP is now produced by The PHP Group and serves as the *de facto* standard for PHP as there is no formal specification. PHP is free software released under the PHP License; it is incompatible with the GNU General Public License (GPL) due to restrictions on the usage of the term *PHP*.

3. MySQL

is a relational database management system (**RDBMS**) based on **SQL** (Structured Query Language). First released in January, 1998, MySQL is now one component of parent company MySQL AB's product line of database servers and development tools.

Many Internet startups became interested in the original open source version of MySQL as an alternative to the proprietary database systems from **Oracle**, **IBM**, and **Informix**. MySQL is currently available under two different licensing agreements: free of charge, under the GNU General Public License (**GPL**) **open_source** system or through

MySQL runs on virtually all platforms, including **Linux**, **UNIX**, and **Windows**. It is fully multi-threaded using **kernel threads**, and provides application program interfaces (**APIs**) for many programming languages, including C, C++, Eiffel, Java, Perl, PHP, Python, and Tcl.

4. JavaScript

Was designed to add interactivity to HTML pages Is a scripting language (a scripting language is a lightweight programming language). JavaScript code is usually embedded directly into HTML pages. JavaScript is an interpreted language (means that (scripts execute without preliminary compilation).

Use the <script> tag (also use the type attribute to define the scripting language).

How to put a JavaScript code into an HTML page?

```
<html>
<head>
<script type="text/javascript">
...
</script>
</head>
<body>
<script type="text/javascript">
...
</script>
</body>
</html>
```

5-APACHE WEB SERVER VERSION 2-5-10

Chapter3

استخدام الدوال داخل javascript تمكنا التعامل مع صفحاتphp التي تعمل ربط مع قاعده البيانات التي
تساعدنا في البحث عن كتب تخص علوم الحاسبات
OperatingSystem,databasebooks,internet,datastructure, SoftwareEngineering,
(artificialintelligence, ProgrammingLanguage

```
<html>
```

```
<head>
```

```
<SCRIPT LANGUAGE="javascript">
```

```
<!--
```

```
function clickme1()
```

```
{
```

```
var ss=form1.searchterm.value;
```

```
alert(ss);
```

```
switch(ss)
```

```
{
```

```
case "operatingsystem" : window.open("s1.php","new_web");
```

```
break;
```

```
case "datastructure" : window.open("s2.php","new_web");
```

```
break;
```

```
case "artificialintelligence" : window.open("w.php","new_web");
```

```
break;
```

```
case "internet" : window.open("s4.php","new_web");
```

```
break;
```

```
case "SoftwareEngineering" : window.open("se.php","new_web");
```

```
break;
```

```
case "ProgrammingLanguage" : window.open("s6.php","new_web");
```

```
break;

case "databasebooks" : window.open("as.php","new_web");
break;

}
}
function clickme2()
{

form1.searchterm.value=form1.os.value;

}
function clickme3()
{

form1.searchterm.value=form1.se.value;

}
function clickme4()
{

form1.searchterm.value=form1.pro.value;

}
function clickme5()
{

form1.searchterm.value=form1.net.value;

}
function clickme6()
{
```

```

form1.searchterm.value=form1.ds.value;

}
function clickme7()
{

form1.searchterm.value=form1.ai.value;

}
function clickme8()
{

form1.searchterm.value=form1.db.value;

-->
</SCRIPT>

</head>

<body bgcolor=tan >
<table border="0" width="20%" height="25">

    <tr>

        <td valign="top" colspan="2" height="16">

            &nbsp;&nbsp;&nbsp;<marquee ></marquee></td>

        </td>

    </tr>

    <tr>

        <td valign="top" rowspan="2" width="106">

            &nbsp;&nbsp;&nbsp;

```

```

<table border="1" width="50%" bgcolor="pink" id="table1">
  <tr>
    <td>

      <h1 align=left><b><font size=5><a href="han2.html"> صور
منوعه</a></font></b></h1>

      <h1 align=left><b><font size=5><a
href="br.html">ابراج</a></font></b></h1>

      <p>&nbsp;

      <h1 align=left><b><font size=5><a
href="han3.html">رياضه</a></font></b></h1>
</td></tr>
</table>

</tr>
<tr>
  <td valign="top" height="99" width="300">

    &nbsp;<h1 align=center>

    <form method="post" name="form1" >
    <center>
    <input name="searchterm" type="text">
    <input type="button" value="search" onclick='clickme1();'>

```

```

<br>
<h1><font size=5><input type="radio" name="os" value="operatingsystem"
onclick='clickme2();'>Operatingsystem<br></font></h1>
<h1><br><font size=5><input type="radio" name="db" value="Databasebooks"
onclick='clickme8()'> Databasebooks<br></font></h1>
<h1><br><font size=5><input type="radio" name="pro"
value="ProgrammingLanguage"
onclick='clickme4();'>ProgrammingLanguage<br></font></h1>
<h1><br><font size=5><input type="radio" name="se"
value="SoftwareEngineering"
onclick='clickme3();'>SoftwareEngineering<br></font></h1>
<h1><br><font size=5><input type="radio" name="net" value="Internet"
onclick='clickme5()'>Internet<br></font></h1>
<h1><br><font size=5><input type="radio" name="ds" value="datastructure "
onclick='clickme6()'>datastructure<br></font></h1>
<h1><font size=5><input type="radio" name="ai"
value="artificialintelligence"onclick='clickme7()'
>artificialintelligence<br></font></h1>

                </td>

</tr>

</table>
</center>
</form>
</body>

</html>

```


الدوال المستخدمة

1-الدالة Mysql_connect

هذه الدالة تستخدم لاجراء الاتصال بقاعدة البيانات وهي تحتاج الى ثلاث متغيرات

1- المتغير الاول: اسم السيرفر

2-المتغير الثاني:اسم المستخدم

3-المتغير الثالث:كلمه السر

" Could not connect: عند حدوث خطأ في الاتصال سوف يطبع عبارته

2- الدالة mysql_select_db

هذه الدالة تحدد قاعده البيانات التي نتعامل معها حاليا وتحتاج هذه الداله المتغيرين

1- المتغير الاول:اسم قاعده البيانات التي نود التعامل معها

2-المتغير الثاني: مقبض الاتصال الذي اجريناه

3- الداله mysql_query

تنفذ الداله جمله الاستعلام على قواعد البيانات وتعود بالقيم الناتجه عن جمله الاستعلام وتلاحظ القيم المستخرجه

Result وضعت في متغير

4-while (\$row = mysql_fetch_array(\$result))

{

Echo "\$row"

}

تستخدم لطباعه الجدول

هذا Code يعمل Connect مع قاعده البيانات Db2 لاطهار جدول operatingsystem

```
<html>

<?php
$con = mysql_connect("localhost","root","root");
if (!$con)
{
    die('Could not connect: ' . mysql_error());
}
mysql_select_db("db2", $con);
$c="%". $_POST["searchterm"] . "%";
$result = mysql_query("SELECT * FROM operatingsystem WHERE path LIKE '$c'");
echo "<table border='1' align='center' width='800px'>
<tr>
<th><h1><b><i>operating system</i></b></h1></th>
</tr>";
while($row = mysql_fetch_array($result))
{
    echo "<tr>";
    echo "<td align='left'> <a href='".$row['path']."' >".$row['path']. "</a></td>";
    echo "</tr>";
}
mysql_close($con);
?>

<body bgcolor="pink">
</body>
</html>
```

هذا Code يعمل Connect مع قاعدة البيانات لاطهار جدول Db3 datastructure

```
<html>
<?php
$con = mysql_connect("localhost","root","root");
if (!$con)
{
    die('Could not connect: ' . mysql_error());
}
mysql_select_db("db3", $con);
$c = "%" . $_POST["searchterm"] . "%";
$result = mysql_query("SELECT * FROM datastructure WHERE path LIKE '$c'");
echo "<table border='1' align='center' width='800px'>
<tr>
<th><h1><b><i>datastructure</i></b></h1></th>
</tr>";
while($row = mysql_fetch_array($result))
{
    echo "<tr>";
    echo "<td align='left'> <a href=" . $row['path'] . ">" . $row['path'] . "</a></td>";
    echo "</tr>";
}
mysql_close($con);
?>
<body bgcolor="tan">
</body>
</html>
```

هذا Code يعمل Connect مع قاعده البيانات Db7 لظهار جدول internet

```
<html>
<?php
$con = mysql_connect("localhost","root","root");
if (!$con)
{
    die('Could not connect: ' . mysql_error());
}
mysql_select_db("db7", $con);
$c="%" . $_POST["searchterm"] . "%";
$result = mysql_query("SELECT * FROM internet WHERE path LIKE '$c'");
echo "<table border='1' align='center' width='800px'>
<tr>
<th><h1><b><i>internet</i></b></h1></th>
</tr>";
while($row = mysql_fetch_array($result))
{
    echo "<tr>";
    echo "<td align='left'> <a href=" . $row['path'] . ">" . $row['path'] . "</a></td>";
    echo "</tr>";
}
mysql_close($con);
?>
<body bgcolor="yellow">
</body>
</html>
```

هذا Code يعمل Connect مع قاعدة البيانات (art) لاضهار جدول artificialintelligence

```
<html>
<?php
$con = mysql_connect("localhost","root","root");
if (!$con)
{
    die('Could not connect: ' . mysql_error());
}
mysql_select_db("art", $con);
$c="%" . $_POST["searchterm"] . "%";
$result = mysql_query("SELECT * FROM artificialintelligence WHERE path LIKE
'$c'");
echo "<table border='1' align='center' width='800px'>
<tr>
<th><h1><b><i>artificialintelligence</i></b></h1></th>
</tr>";
while($row = mysql_fetch_array($result))
{
    echo "<tr>";
    echo "<td align='left'><a href=" . $row['path'] . ">" . $row['path'] . "</a></td>";
    echo "</tr>";
}
mysql_close($con);
?>
<body bgcolor="green">
</body>
</html>
```

هذا Code يعمل Connect مع قاعده البيانات (se) لاضهار جدول SoftwareEngineering

```
<html>
<?php
$con = mysql_connect("localhost","root","root");
if (!$con)
{
    die('Could not connect: ' . mysql_error());
}
mysql_select_db("se", $con);
$c = "%" . $_POST["searchterm"] . "%";
$result = mysql_query("SELECT * FROM SoftwareEngineering WHERE path LIKE '$c'");
echo "<table border='1' align='center' width='800px'>
<tr>
<th><h1> SoftwareEngineering</h1></th>
</tr>";
while($row = mysql_fetch_array($result))
{
    echo "<tr>";
    echo "<td align='left'> <a href=" . $row['path'] . ">" . $row['path'] . "</a></td>";
    echo "</tr>";
}
mysql_close($con);
?>
<body bgcolor="tan">
</body>
</html>
```

هذا Code يعمل Connect مع قاعده البيانات (pl) لاضهار جدول ProgrammingLanguage

```
<html>

<?php
$con = mysql_connect("localhost","root","root");
if (!$con)
{
    die('Could not connect: ' . mysql_error());
}
mysql_select_db("pl", $con);
$c="%" . $_POST["searchterm"] . "%";
$result = mysql_query("SELECT * FROM ProgrammingLanguage WHERE path
LIKE '$c'");
echo "<table border='1' align='center' width='800px'>
<tr>
<th>ProgrammingLanguage</th>
</tr>";
while($row = mysql_fetch_array($result))
{
    echo "<tr>";
    echo "<td align='left'> <a href='." . $row['path'] . "' > " . $row['path'] . " </a></td>";
    echo "</tr>";
}
mysql_close($con);
?>

<body bgcolor="pink">
</body>
</html>
```

هذا Code يعمل Connect مع قاعده البيانات (pp) لاضهار جدول databasebooks

```
<html>
<?php
$con = mysql_connect("localhost","root","root");
if (!$con)
{
    die('Could not connect: ' . mysql_error());
}
mysql_select_db("pp", $con);
$c="%" . $_POST["searchterm"] . "%";
$result = mysql_query("SELECT * FROM databasebooks WHERE path LIKE '$c'");
echo "<table border='1' align='center' width='800px'>
<tr>
<th><h1><b><i>databasebooks</i></b></h1></th>
</tr>";
while($row = mysql_fetch_array($result))
{
    echo "<tr>";
    echo "<td align='left'> <a href=" . $row['path'] . ">" . $row['path'] . "</a></td>";
    echo "</tr>";
}
mysql_close($con);
?>
<body bgcolor="tan">
</body>
</html>
```


Chapter4

Reference

- [1] Deborah H.Ray and Eric J.Ray 2000 “*HTML Complete*” 2nd Edition sybex, San Francisco
- [2] Pual Hain Dec 2006 “*HTML Mastery*” 2nd Edition Amazon
- [3] Sager Mohammed Alonezi “php &Mysql”