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Java Servlet and JSP.

Subject Name: Advanced Internet Programming

Subject Code: CAP716/20CAP726

UID: 20MCA1232

Section/Group: 2A

Semester: 1

Date of Performance: 20/11/2020

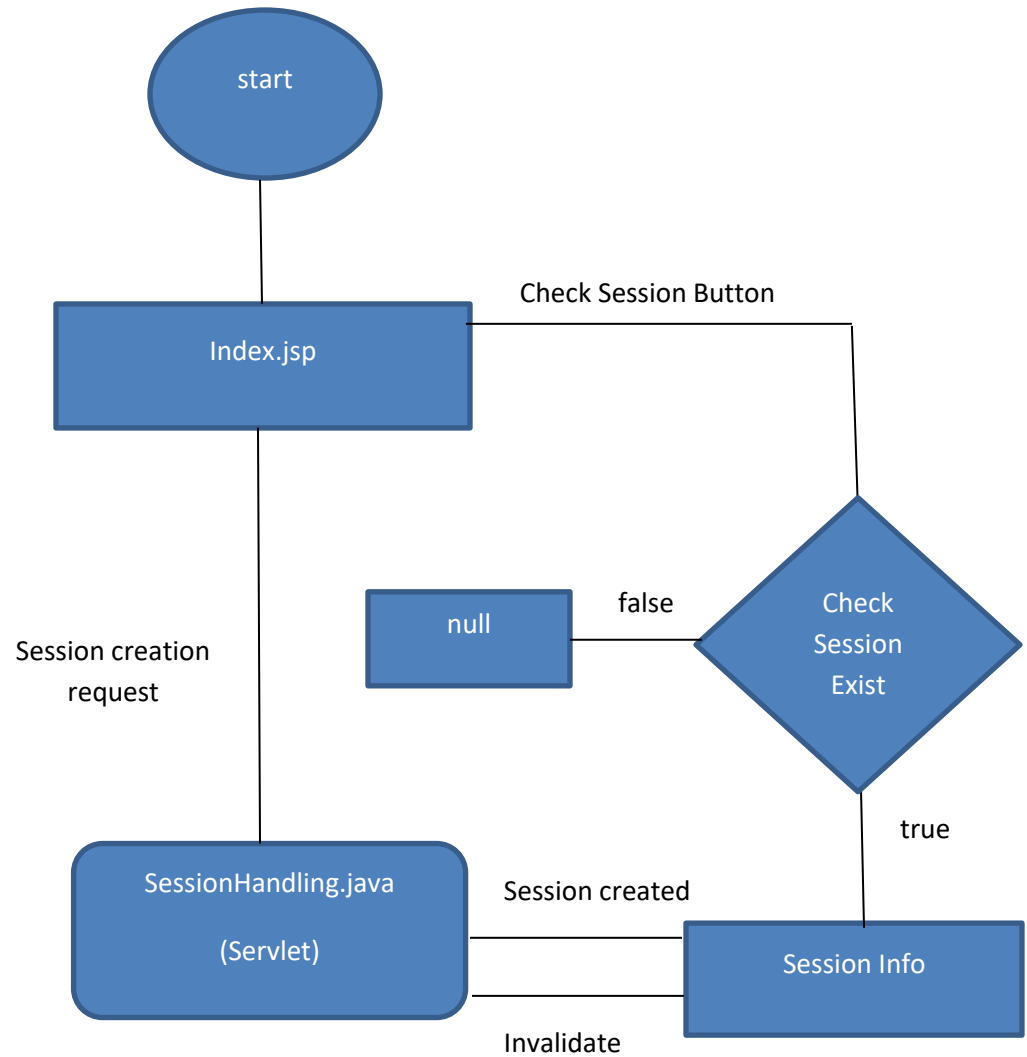
Task to be done:

Experiment No. 2.4:

Create a Servlet that uses session tracking to show per-client access counts.

Also, show other generic-info about the session such as time when this session was created and maximum time interval (minutes), that the servlet container will keep the session.

1. Algorithm/Flowchart :





2. Dataset: Username:ABC | password:123

3. Code for experiment/practical:

Index.jsp

```
<%--
```

```
Document : index
```

```
Created on : Nov 20, 2020, 10:07:42 AM
```

```
Author : vivek
```

```
--%>
```

```
<%@page contentType="text/html" pageEncoding="UTF-8"%>
```

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
```

```
<title>Home</title>
```

```
</head>
```

```
<body>
```

```
<form action="SessionHandling" method="post">
```

```
<label for="username">username</label>
```

```
<input type="text" name="username" required>
```

```
<label for="password">password</label>
```



```
<input type="password" name="password" required>
```

```
<br>
```

```
<input type="submit" name="submit" value="submit">
```

```
<input type="submit" name="submit" value="check">
```

```
</form>
```

```
</body>
```

```
</html>
```

SessionHandling.java(Servlet)

```
/*  
 * To change this license header, choose License Headers in Project Properties.  
 * To change this template file, choose Tools | Templates  
 * and open the template in the editor.  
 */
```

```
package com.vivek;
```

```
import java.io.IOException;
```

```
import java.io.PrintWriter;
```

```
import javax.servlet.ServletException;
```

```
import javax.servlet.http.HttpServlet;
```

```
import javax.servlet.http.HttpServletRequest;
```

```
import javax.servlet.http.HttpServletResponse;
```

```
import javax.servlet.http.HttpSession;
```

```
/**
```

```
*
```

* @author vivek

*/

```
public class SessionHandling extends HttpServlet {  
  
    HttpSession session=null;  
  
    PrintWriter out;  
  
    protected void service(HttpServletRequest request,HttpServletResponse response) throws  
IOException, ServletException  
  
    {  
  
        out=response.getWriter();  
  
        String type=request.getParameter("submit");  
  
        session=request.getSession();  
  
  
        if(type.equals("submit"))  
  
        {  
  
            String username=request.getParameter("username");  
  
  
  
  
            session.setAttribute("username",username);  
  
            int count=0;  
  
            if(null!=session.getAttribute(username))  
  
            {  
  
                count=Integer.parseInt(session.getAttribute(username).toString());  
  
            }  
  
            session.setAttribute(username,count++);  
  
            request.getRequestDispatcher("display.jsp").include(request, response);  
  
        }  
    }  
}
```

```
if(type.equals("check"))  
{  
    request.getRequestDispatcher("display.jsp").include(request, response);  
}  
if(type.equals("close"))  
{  
    session.invalidate();  
    response.sendRedirect("index.jsp");  
}  
}  
}
```

Display.jsp

```
<% @page import="java.util.Date"%>  
<% @page contentType="text/html" pageEncoding="UTF-8"%>  
<!DOCTYPE html>  
<html>  
    <head>  
        <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">  
        <title>All sessions</title>  
    </head>  
    <% HttpSession s=request.getSession(false);  
    boolean flag=true;  
    if(null == session.getAttribute("username"))
```

```
{  
    flag=false;  
  
}  
  
System.out.println("flag:"+flag);    %>  
  
<script>  
  
    </script>  
  
<body>  
  
    <%  
        if(flag)  
        {  
            String username=s.getAttribute("username").toString();  
            int count=Integer.parseInt(s.getAttribute(username).toString());  
            count++;  
            s.setAttribute(username,count);  
            long creationTime=s.getCreationTime();  
            int timeInterval=s.getMaxInactiveInterval();  
            String sessionId=s.getId().toString();  
        }  
    %>  
  
    <p> session id: <%= sessionId %></p>  
  
    <p> username:<%=username%></p>  
  
    <p> count:<%=count%></p>  
  
    <p>creation time:<%=new Date(creationTime)%></p>
```

<p> time interval:<% = timeInterval/60 %>minutes </p>

<form action="SessionHandling" method="post">

<input type="submit" name="submit" value="close" >

<button>index.jsp</button>

</form>

<% } else { %>

<h3> no Session Created</h3>

index.jsp

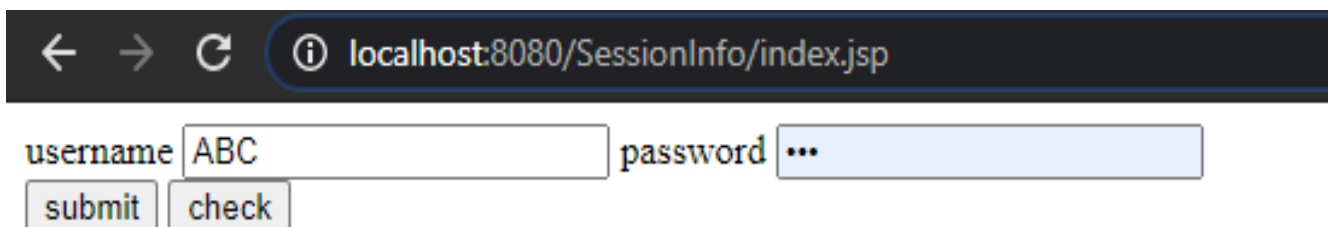
<% } %>

</body>

</html>

4. Result/Output/Writing Summary:

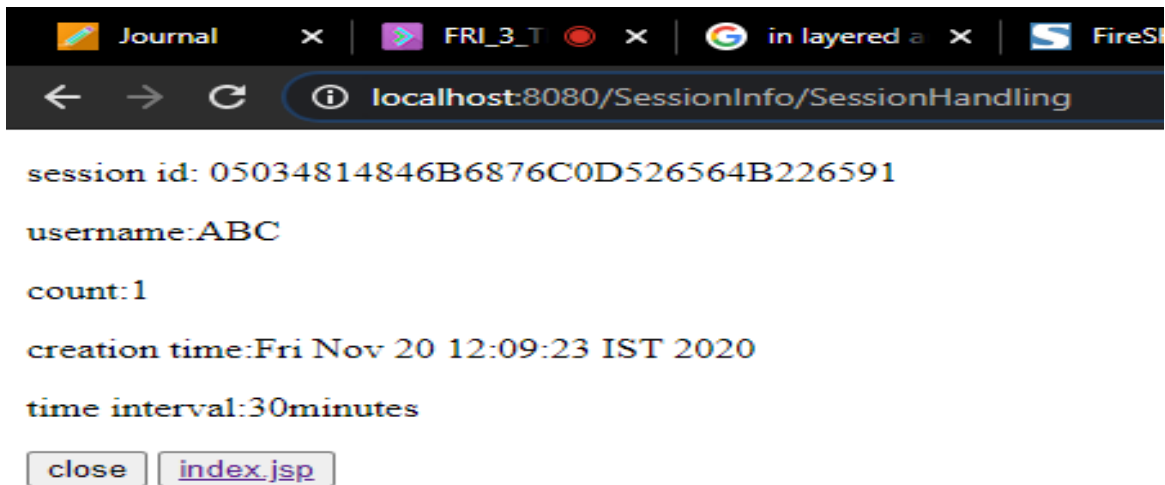
Index.jsp



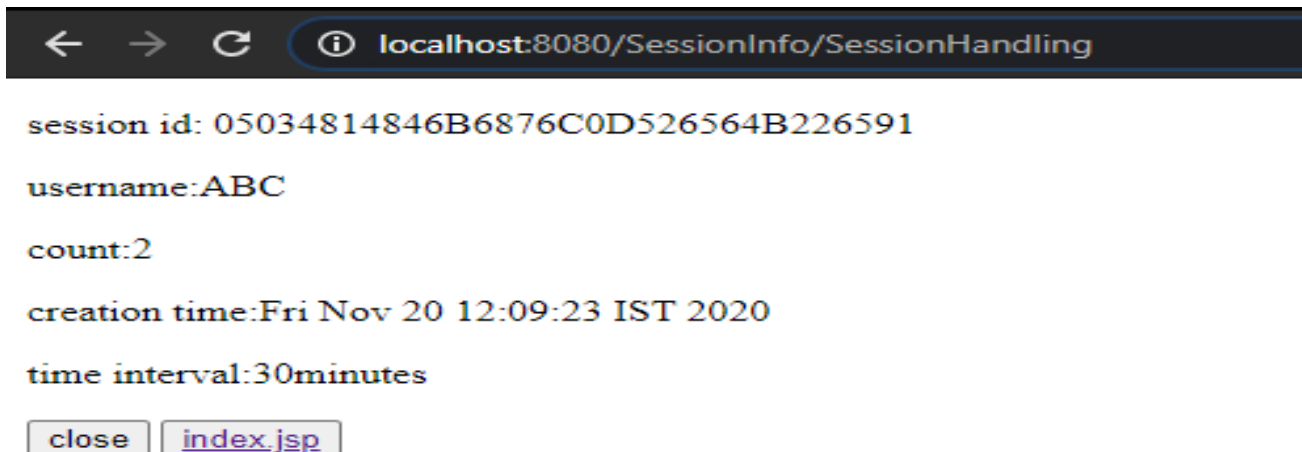
← → ↻ ⓘ localhost:8080/SessionInfo/index.jsp

username password

Display.jsp(first run):count is 1



Display.jsp(Second run):count is 2



Learning outcomes (What I have learnt):

1. JSP
2. Java servlet



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3. Session handling

Evaluation Grid:

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.	Demonstration and Performance (Pre Lab Quiz)		5
2.	Worksheet		10
3.	Post Lab Quiz		5