Programming Assignment 6 – HitCount Web Application using using HttpSession object and Hidden Form field session tracking mechanisms

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Write a java servlet to count the hits by the users with the session tracking mechanisms, namely, HttpSession object and Hidden form field.

CODE – HTTP SESSION

index.html:
```
<html>
<body>
<form action="hello" method="get">
<input type="submit" value="Get Hit Count">
</form>
</body>
</html>
```

web.xml
```
<web-app>
<servlet>
<servlet-name>session1</servlet-name>
<servlet-class>serv1</servlet-class>
</servlet>

<servlet-mapping>
<servlet-name>session1</servlet-name>
<url-pattern>/hello</url-pattern>
</servlet-mapping>

<servlet>
<servlet-name>session2</servlet-name>
<servlet-class>serv2</servlet-class>
</servlet>

<servlet-mapping>
<servlet-name>session2</servlet-name>
<url-pattern>/hello2</url-pattern>
```

```
</servlet-mapping>

<servlet>
<servlet-name>session3</servlet-name>
<servlet-class>serv3</servlet-class>
</servlet>

<servlet-mapping>
<servlet-name>session3</servlet-name>
<url-pattern>/hello3</url-pattern>
</servlet-mapping>

</web-app>
```

serv1.java
```java
import javax.servlet.http.*;
import javax.servlet.*;
import java.io.*;

public class serv1 extends HttpServlet{
public void doGet(HttpServletRequest req,HttpServletResponse res)throws
ServletException,IOException
{
res.setContentType("text/html");
PrintWriter pw=res.getWriter();
int a;
HttpSession s=req.getSession(true);
if(s.isNew())
{
      a=1;
      s.setAttribute("count",a);
}
else
{
      a=(int)s.getAttribute("count");
      a++;
      s.setAttribute("count",a);
}
pw.println("Hit count:"+a);
pw.println("<br>");
```

```java
pw.println("<a href='hello2'>GO</a>");
}}
```

serv2.java

```java
import javax.servlet.http.*;
import javax.servlet.*;
import java.io.*;

public class serv2 extends HttpServlet{
public void doGet(HttpServletRequest req,HttpServletResponse res)throws
ServletException,IOException
{
res.setContentType("text/html");
PrintWriter pw=res.getWriter();
HttpSession s=req.getSession(false);

int a=(int)s.getAttribute("count");
++a;
pw.println("Hit count:"+a);
s.setAttribute("count",a);
pw.println("<br>");
pw.println("<a href='hello3'>go</a>");
}
}
```
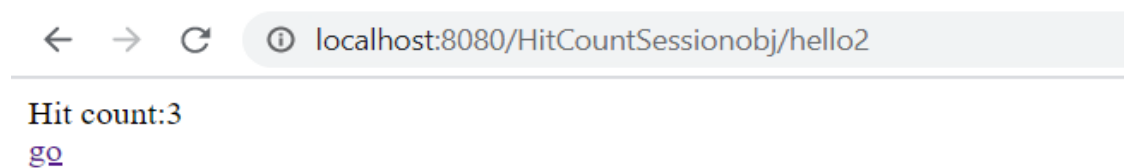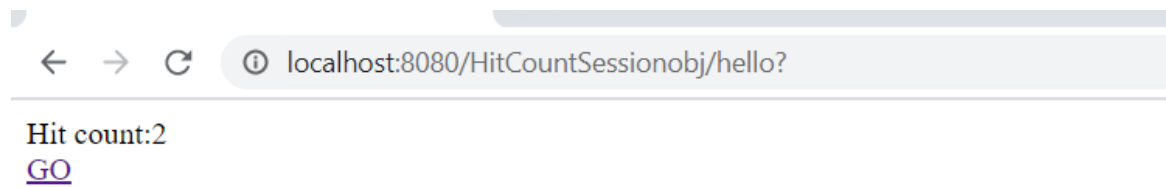
serv3.java

```java
import javax.servlet.http.*;
import javax.servlet.*;
import java.io.*;
public class serv3 extends HttpServlet{
public void doGet(HttpServletRequest req,HttpServletResponse res)throws
ServletException,IOException
{
res.setContentType("text/html");
PrintWriter pw=res.getWriter();
HttpSession s=req.getSession(false);
int a=(int)s.getAttribute("count");
```

```
++a;
pw.println("Hit count:"+a);
s.setAttribute("count",a);
}}
```
OUTPUT:

← → C ⓘ localhost:8080/HitCountSessionobj/

Get Hit Count

← → C ⓘ localhost:8080/HitCountSessionobj/hello?

Hit count:1
GO

← → C ⓘ localhost:8080/HitCountSessionobj/hello?

Hit count:2
GO

← → C ⓘ localhost:8080/HitCountSessionobj/hello2
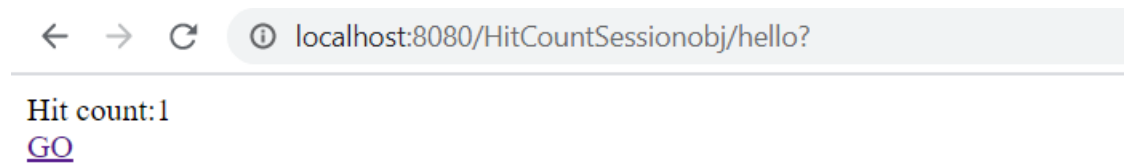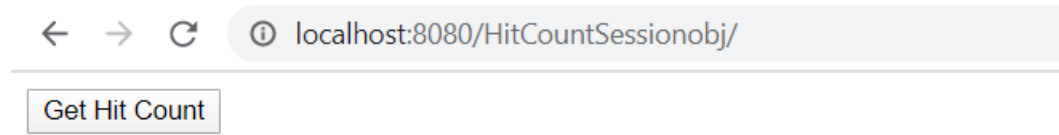
Hit count:3
go

CODE – HIDDEN FORM FIELD

serv1.java
```java
import javax.servlet.http.*;
import javax.servlet.*;
import java.io.*;
public class serv1 extends HttpServlet

{
public void doGet(HttpServletRequest req,HttpServletResponse res)
throws ServletException,IOException
{
        res.setContentType("text/html");
        PrintWriter pw=res.getWriter();
        int c=1;
        pw.println("<form action='hello2'>");
        pw.println("<input type='hidden' name='hit_cnt' value='"+c+"'>");
        pw.println("Hit count: "+c);
        pw.println("<input type='submit' value='click here'>");
        pw.println("</form>");
}
}
```

serv2.java
```java
import javax.servlet.http.*;
import javax.servlet.*;
import java.io.*;

public class serv2 extends HttpServlet
```

```java
{
public void doGet(HttpServletRequest req,HttpServletResponse res)
throws ServletException,IOException
{
       res.setContentType("text/html");
       PrintWriter pw=res.getWriter();
       String str=req.getParameter("hit_cnt");
       int c=Integer.parseInt(str);
       c++;
       pw.println("Hit count: "+c);
       pw.println("<form action='hello3'>");
       pw.println("<input type='hidden' name='hit_cnt' value='"+c+"'>");
       pw.println("<input type='submit' value='click here'>");
       pw.println("</form>");
}
}
```

serv3.java
```java
import javax.servlet.http.*;
import javax.servlet.*;
import java.io.*;
public class serv3 extends HttpServlet

{
public void doGet(HttpServletRequest req,HttpServletResponse res)
throws ServletException,IOException
{
       res.setContentType("text/html");
       PrintWriter pw=res.getWriter();
       String str=req.getParameter("hit_cnt");
       int c=Integer.parseInt(str);
       c++;
       pw.println("Hit count: "+c);
}
}
```

OUTPUT

← → C ⓘ localhost:8080/clickServlet/

Get Hit Count

← → C ⓘ localhost:8080/clickServlet/hello?

Hit count: 1 click here

← → C ⓘ localhost:8080/clickServlet/hello2?hit_cnt=1

Hit count: 2
click here

← → C ⓘ localhost:8080/clickServlet/hello3?hit_cnt=2

Hit count: 3