SERVLETS PART-10

3) Http Sessions:

In this session tracking method client state information stored at server side.

In this session tracking method, session id created by web container and passed to client system.

Session id created by web container and passed client system with login response.

Session id passed to server system by client with second request on wards up to logout request.

Session id used by server to identify the client.

To maintain session id, there are two ways:

1) By using cookies => default

2) By using URL Rewriting

There are two ways to implement this session tracking method:

1) Http Sessions with Cookies

2) Http Sessions with URL Rewriting

Http Sessions with Cookies	Http Session:
1) In this session tracking method session id created by web container, passed to client system and stored in cookie variable.	1) In this ses: session id cre and appended
2) This session tracking method fails if the cookies are disabled in a browser.	2) This sessio always works.

1) Http Sessions with Cookies:

In this session tracking method client state information stored at server side.

In this session tracking method session id created by web container, passed to client system and stored in cookie variable.

Example:

SetSession.java

package session2;

import java.io.IOException;

import java.io.PrintWriter;

import javax.servlet.ServletException;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.Cookie;

import javax.servlet.http.HttpServlet;

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

import javax.servlet.http.HttpServletResponse;

import javax.servlet.http.HttpSession;

@WebServlet("/set")

public class SetSession extends HttpServlet {

    protected void doGet(HttpServletRequest request,
HttpServletResponse response) throws ServletException, IOException {

        String s1=request.getParameter("book1");

        String s2=request.getParameter("book2");

        String s3=request.getParameter("book3");

        HttpSession hs=request.getSession();

        hs.setAttribute("b1", s1);

        hs.setAttribute("b2", s2);

        hs.setAttribute("b3", s3);

        PrintWriter pw=response.getWriter();

        pw.println("<html><body bgcolor=cyan text=red>");

        pw.println("<h1>Your Books Are Added To Cart</h1>");

        pw.println("<a href=get>Next</a>");

        pw.println("</body></html>");    }  }
```

GetSession.java

```java
package session2;

import java.io.IOException;
```

```java
import java.io.PrintWriter;

import javax.servlet.ServletException;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

import javax.servlet.http.HttpSession;

@WebServlet("/get")

public class GetSession extends HttpServlet {

    protected void doGet(HttpServletRequest request,
HttpServletResponse response) throws ServletException, IOException {

        HttpSession hs=request.getSession();

        String s1=(String)hs.getAttribute("b1");

        String s2=(String)hs.getAttribute("b2");

        String s3=(String)hs.getAttribute("b3");

        PrintWriter pw=response.getWriter();

        pw.println("<html><body bgcolor=red text=yellow>");

        pw.println("<h1><u>Selected Books</u></h1>");

        if(s1!=null)

        {

            pw.println(s1+"<br>");

        }
```

```
                if(s2!=null)

                {

                        pw.println(s2+"<br>");

                }

                if(s3!=null)

                {

                        pw.println(s3+"<br>");

                }

                pw.println("</body></html>");

        }

}
```

2) Http Sessions with URL Rewriting:

In this session tracking method client state information stored at server side.

In this session tracking method session id created by web container and appended to url.

Example:

SetSession.java

package session3;

import java.io.IOException;

import java.io.PrintWriter;

import javax.servlet.ServletException;

```
import javax.servlet.annotation.WebServlet;

import javax.servlet.http.Cookie;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

import javax.servlet.http.HttpSession;

@WebServlet("/set")

public class SetSession extends HttpServlet {

        protected void doGet(HttpServletRequest request,
HttpServletResponse response) throws ServletException, IOException {

                String s1=request.getParameter("book1");

                String s2=request.getParameter("book2");

                String s3=request.getParameter("book3");

                HttpSession hs=request.getSession();

                hs.setAttribute("b1", s1);

                hs.setAttribute("b2", s2);

                hs.setAttribute("b3", s3);

                String s=response.encodeURL("get");

                PrintWriter pw=response.getWriter();

                pw.println("<html><body bgcolor=cyan text=red>");

                pw.println("<h1>Your Books Are Added To Cart</h1>");

                pw.println("<a href="+s+">Next</a>");
```

```
            pw.println("</body></html>");

    }

}
```

Cookies	Sess
1) A cookie is a piece of information stored at client side to maintain client state information.	1) A session is stored at serv state informat
2) It supports string type data only.	2) It supports
3) By default cookies are vanished whenever browser window is closed.	3) By default after 30 mins
4) Here, it is possible to set the time interval by using setMaxAge()	4) Here also i time interval l

4) Hidden Form Fields:

In this session tracking method, client state information stored in hidden fields.

It is very easy to implement because it requires html code only.

In this session tracking method, it is not possible to set the time interval.

It supports text only.

Example:

SetFields.java

```
package hff;

import java.io.IOException;

import java.io.PrintWriter;

import javax.servlet.ServletException;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

@WebServlet("/set")

public class SetFields extends HttpServlet {

    protected void doGet(HttpServletRequest request,
HttpServletResponse response) throws ServletException, IOException {

            String s1=request.getParameter("book1");

            String s2=request.getParameter("book2");

            String s3=request.getParameter("book3");

            PrintWriter pw=response.getWriter();

            pw.println("<html><body bgcolor=cyan text=red>");

            pw.println("<h1>Your Books Are Added To Cart</h1>");

            pw.println("<form action=get>");

            pw.println("<input type=hidden name=b1 value="+s1+">");

            pw.println("<input type=hidden name=b2 value="+s2+">");
```

```
        pw.println("<input type=hidden name=b3 value="+s3+">");

        pw.println("<input type=submit value=Next>");

        pw.println("</form></body></html>");

    }

}
```

GetFields.java

```java
package hff;

import java.io.IOException;

import java.io.PrintWriter;

import javax.servlet.ServletException;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.Cookie;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

@WebServlet("/get")

public class GetFields extends HttpServlet {

    protected void doGet(HttpServletRequest request,
HttpServletResponse response) throws ServletException, IOException {

        PrintWriter pw=response.getWriter();

        String s1=request.getParameter("b1");

        String s2=request.getParameter("b2");
```

```java
        String s3=request.getParameter("b3");

        pw.println("<html><body bgcolor=yellow text=blue>");

        pw.println("<h1>Selected Books:</h1>");

        if(!(s1.equals("null")))

        {

                pw.println(s1);

        }

        if(!(s2.equals("null")))

        {

                pw.println(s2);

        }

        if(!(s3.equals("null")))

        {

                pw.println(s3);

        }

        pw.println("</body></html>");

    }

}
```

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