

Week-12:

Date:

AIM: Modify cart JSPpage to achieve the dynamism with the HTTP protocol and session management

DESCRIPTION:

HTTP is a stateless protocol. Session is required to maintain the state.

Methods of session Object:

There are numerous methods available for session Object. Some are:

- `getAttribute(String name)`
- `getAttributeNames`
- `isNew()`
- `getCreationTime`
- `getId`
- `invalidate()`
- `getLastAccessedTime`
- `getMaxInactiveInterval`
- `removeAttribute(String name)`
- `setAttribute(String, object)`

The `<jsp:include>` element allows you to include either static and dynamic files in a JSP file.

Program :

Cart .java

```
import java.util.*;
import javax.servlet.http.*;
import javax.servlet.*;
import java.io.*;
public class Cart extends HttpServlet
{
    public void init(ServletConfig config) throws
ServletException
    {
        super.init(config);
    }
}
```

```

    public void service(HttpServletRequest
req,HttpServletResponse res) throws
IOException,ServletException
    {
        res.setContentType("text/html");
        PrintWriter pw=res.getWriter();
        HttpSession hs=req.getSession();
        ArrayList cart=(ArrayList)hs.getAttribute("cart");
        if(cart==null)
        {
            pw.println("No items in your cart");
            cart=new ArrayList();
            hs.setAttribute("cart",cart);
        }
        String itemselected[];
        String item;
        itemselected=req.getParameterValues("book");

        if(itemselected!=null)
        {
            for(int i=0;i<itemselected.length;i++)
            {
                item=itemselected[i];
                cart.add(item);

            }

            pw.println("Items in the cart<br>");
            Iterator it=cart.iterator();
            while(it.hasNext())
            {
                pw.println("<br><b>" +it.next()+"</b>");
            }

        }
    }
}

```

```
}
```

Catalogue.java

```
import java.util.*;
import javax.servlet.http.*;
import javax.servlet.*;
import java.io.*;
public class Catalogue extends HttpServlet
{
    int itemcount=0;
    public void init(ServletConfig config) throws
ServletException
    {
        super.init(config);

    }
    public void service(HttpServletRequest
req,HttpServletResponse res) throws
IOException,ServletException
    {
        res.setContentType("text/html");
        PrintWriter pw=res.getWriter();
        HttpSession hs=req.getSession();
        ArrayList cart=(ArrayList)hs.getAttribute("cart");
        if(cart!=null)
        {
            itemcount=cart.size();
        }

        pw.println("You have"+itemcount+"items in cart");

        pw.println("<body><center><fieldset><legend>Catalogu
e</legend><form action='cart' method='get'><input
```

```

type='checkbox' value='Java2'
name='book'>java2</input><br>");
    pw.println("<input type='checkbox' name='book'
value='web programming'>Web programming</input><br>");
    pw.println("<input type='checkbox' name='book'
value='Java2 Complete Reference'>Java2 Complete
Reference</input><br>");
    pw.println("<input type='checkbox' name='book'
value='Internet & World wide web'>Internet & World wide
web</input><br>");
    pw.println("<input type='checkbox' name='book'
value='Core servlets & JSP'>Core servlets
& JSP</input><br>");
    pw.println("<input type='checkbox' name='book'
value='J2EE 3rd edition'>J2EE 3rd edition</input><br>");
    pw.println("<input type='checkbox' name='book'
value='Electronic Devices and circuits'>Electronic Devices
and circuits</input><br>");
    pw.println("<input type='checkbox' name='book'
value='Software Engineering'>Software
Engineering</input><br>");
    pw.println("<input type='checkbox' name='book'
value='software project management'>software project
management</input><br>");
    pw.println("<input type='checkbox' name='book'
value='Computer networks'>Computer
networks</input><br>");
    pw.println("</fieldset></center>");
    pw.println("<input type='submit' value='submit'>");

}
}

```

```
<web-app>

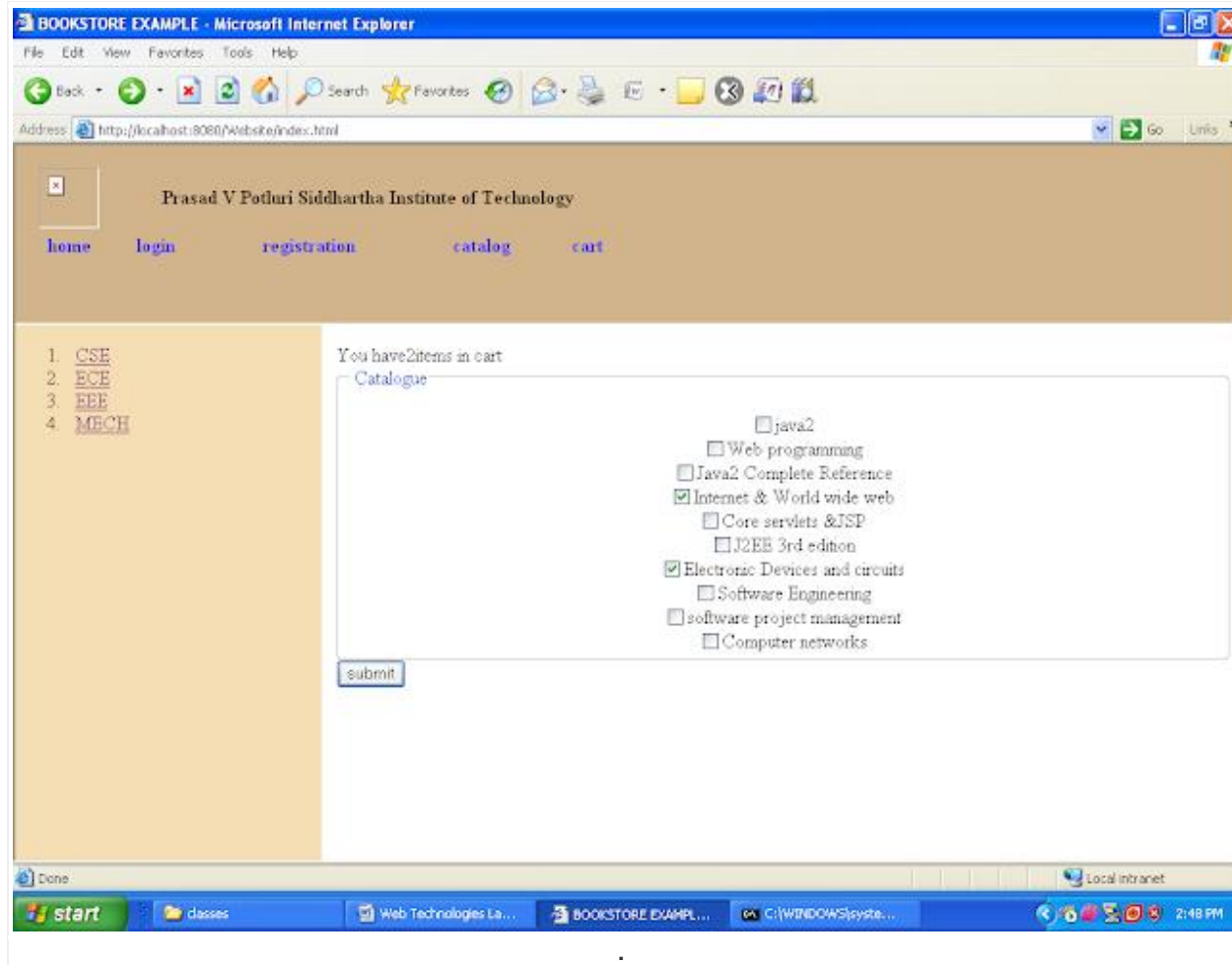
<servlet>
<servlet-name>Login</servlet-name>
<servlet-class>Login</servlet-class>
<init-param>
<param-name>username</param-name>
<param-value>syam</param-value>

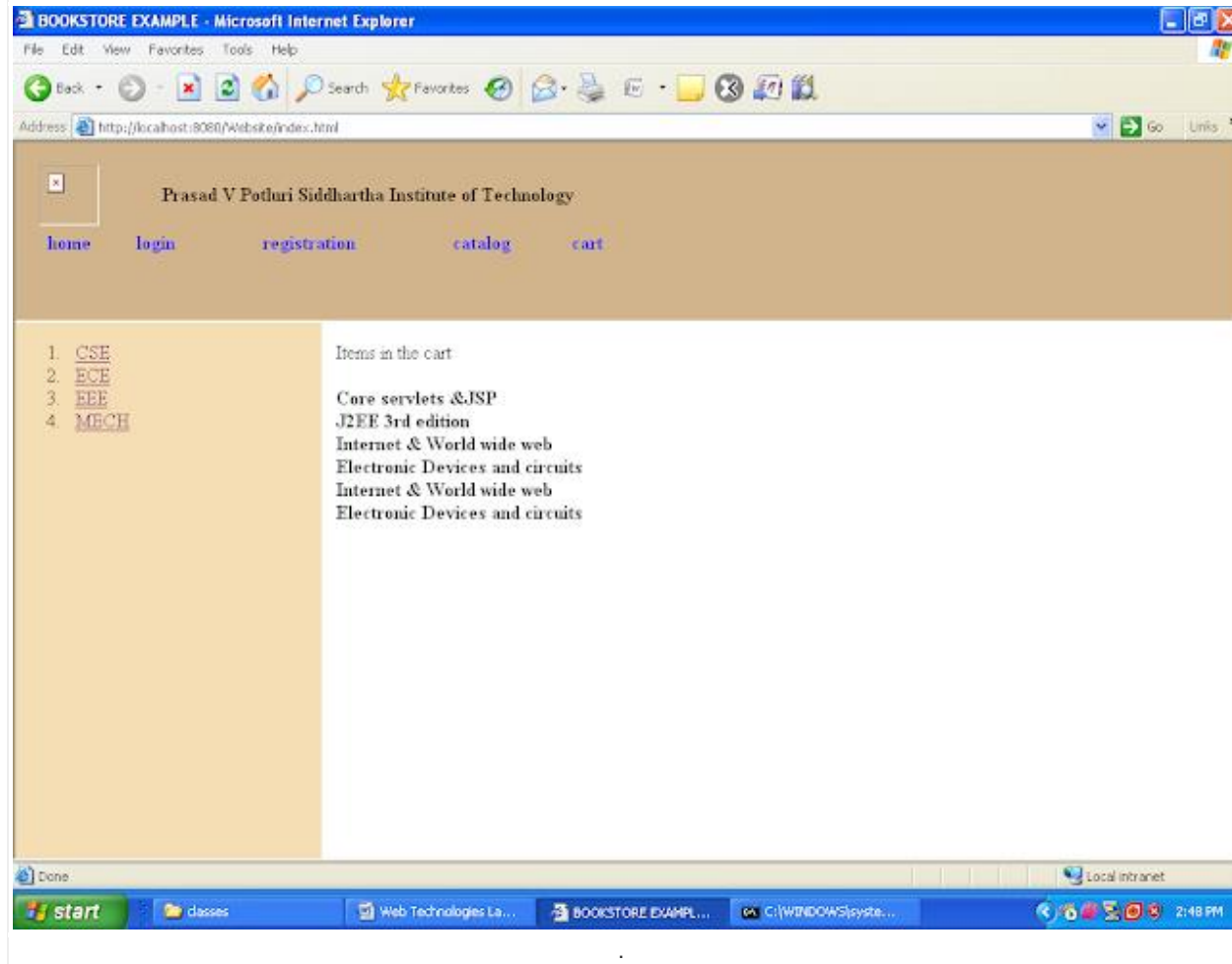
</init-param>
<init-param>
<param-name>password</param-name>
<param-value>syam</param-value>

</init-param>

</servlet>
<servlet-mapping>
<servlet-name>Login</servlet-name>
<url-pattern>/login.do</url-pattern>
</servlet-mapping>
<servlet>
<servlet-name>cat</servlet-name>
<servlet-class>Catalogue</servlet-class>
</servlet>
<servlet-mapping>
<servlet-name>cat</servlet-name>
<url-pattern>/Cat</url-pattern>
</servlet-mapping>
<servlet>
<servlet-name>cart</servlet-name>
<servlet-class>Cart</servlet-class>
</servlet>
<servlet-mapping>
<servlet-name>cart</servlet-name>
<url-pattern>/cart</url-pattern>
```

</servlet-mapping>
</web-app>





Result : Thus the session management is successfully created using jsp