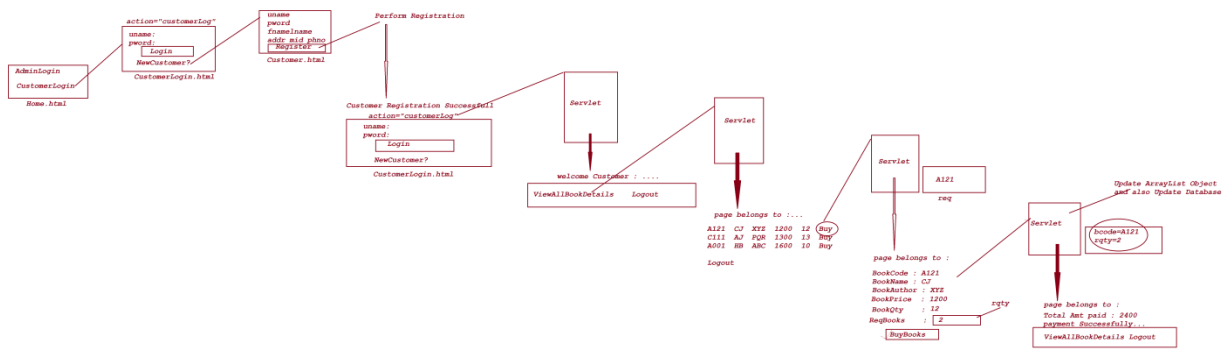


**Assignment:(Construct Customer-Login for above appliaction using the following Layout)**



***faq:***

***wt is the diff b/w***

***(i) Cookie***

### ***(ii) HttpSession***

**(i) Cookie:**

**=>Cookie is a Class from javax.servlet.http and which is used session tracking process.**

**=>Cookie is created by Server-Application,but stored in WebBrowser to track the**

***user***

**=>Cookie Applications are Client dependent Application.**

**(ii) HttpSession:**

**=>HttpSession is an interface from javax.servlet.http and which is also used in Session tracking process.**

**=>HttpSession object is created by Server-application and which is available in Server only.**

**=>HttpSession Applications are Sever dependent applications**

=====

**faq:**

**wt is the diff b/w**

**(i)getSession()**

**(ii)getSession(false)**

**(iii)getSession(true)**

**(i)getSession():**

**=>getSession() method will search for existing session,if not available creates new-session.**

**(ii)getSession(false):**

**=>getSession(false) method will also search for existing session,if available use the session and if not available new session is not created.**

**(iii)getSession(true)**

**=>getSession(true) method also search for existing session,if available use the session and if not available create a new session.**

=====

**\*imp**

**ServletContext:**

**=>ServletContext is an interface from javax.servlet package and which is instantiated**

**automatically when Web Application is deployed into Server.**

**=>This ServletContext object is loaded with Server information.**

**=>we use getServletContext() method from ServletRequest to access the reference of**

**ServletContext Object.**

**syntax:**

**ServletContext sct = req.getServletContext();**

**=>we use <context-param> tag part of web.xml to initialize parameter-values to**

**ServletContext object.**

**syntax:**

**<web-app>**

**<context-param>**

**<param-name> name </param-name>**

**<param-value> value </param-value>**

**</context-param>**

**...**

**</web-app>**

**=>we use `getInitParameter()` method to access initialized parameter-value from the**

**`ServletContext` Object.**

**Method signature of `getInitParameter()`:**

**`public abstract java.lang.String getInitParameter(java.lang.String);`**

**syntax:**

**`String var = sct.getInitParameter("para_name");`**

-----

**Dt : 16/12/2023**

**\*imp**

**`ServletConfig`:**

**=>`ServletConfig` is an interface from `javax.servlet` package and which is instantiated**

**automatically when the Servlet-program loaded for execution.**

**=>This ServletConfig Object is loaded with Servlet-name.**

**=>we use getServletConfig() method from 'GenericServlet' to access the reference of**

**ServletConfig Object**

**syntax:**

**ServletConfig scf = this.getServletConfig();**

**=>we use <init-param> subtag of <servlet> tag to initialize parameter-values in ServletConfig object.**

**syntax:**

**<web-app>**

**...**

**<servlet>**

**<servlet-name> name </servlet-name>**

**<servlet-class> class </servlet-class>**

**<init-param>**

**<param-name> name </param-name>**

**<param-value> value </param-value>**

**</init-param>**

**</servlet>**

**<servlet-mapping>**

**<servlet-name> name </servlet-name>**

**<url-pattern> /url </url-pattern>**

`</servlet-mapping>`

...

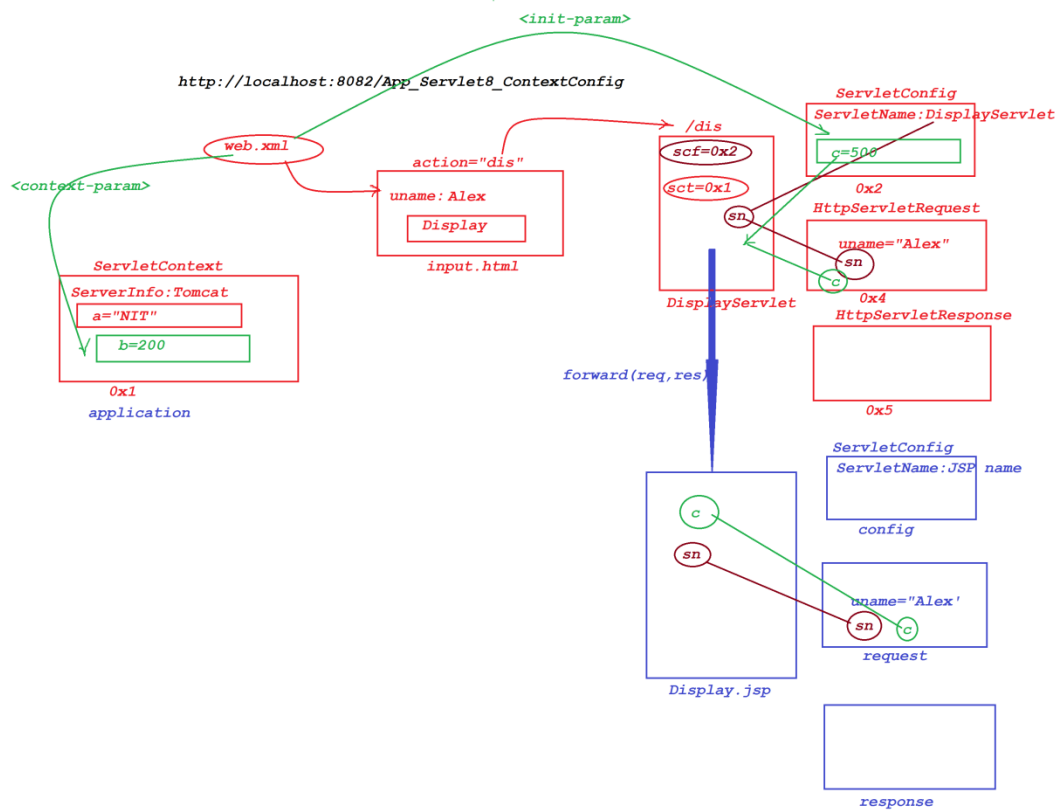
`</web-app>`

=>we use `getInitParameter()` method to get the initialized parameter from `ServletConfig`

**Object**

**Ex-Application:**

**Layout:**



**input.html**

```
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
<form action="dis" method="post">
UserName:<input type="text" name="uname"><br>
<input type="submit" value="Display">
</form>
</body>
</html>
```

**DisplayServlet.java**

```
package test;

import java.io.*;

import javax.servlet.*;

import javax.servlet.http.*;

@SuppressWarnings("serial")

public class DisplayServlet extends HttpServlet{

    @Override

    protected void doPost(HttpServletRequest req,HttpServletResponse res)throws

ServletException,IOException{

        ServletContext sct = req.getServletContext();

        ServletConfig scf = this.getServletConfig();

        req.setAttribute("sn", scf.getServletName());

        req.setAttribute("c", scf.getInitParameter("c"));
```

```
sct.setAttribute("a","NIT");
```

```
req.getRequestDispatcher("Display.jsp").forward(req, res);
```

```
}
```

```
}
```

**Display.jsp**

```
<%@ page language="java"
        contentType="text/html; charset=ISO-8859-1"
        pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
<%
String uName = request.getParameter("uname");
out.println("Welcome User : "+uName+"<br>");
out.println("====ServletContext====");
out.println("<br>ServerInfo:"+application.getServerInfo
());
String a = (String)application.getAttribute("a");
out.println("<br>Attribute in Context:"+a);
int b =
Integer.parseInt(application.getInitParameter("b"));
out.println("<br>Context-InitParameter:"+b);
out.println("<br>====ServletConfig====");
out.println("<br>ServletName
:"+request.getAttribute("sn"));
out.println("<br>Config-
InitParameter:"+request.getAttribute("c"));
out.println("<br>JSP Config:"+config.getServletName());
%>
</body>
```



</html>

**web.xml**

```
<?xml version="1.0" encoding="UTF-8"?>
<web-app>
  <context-param>
    <param-name>b</param-name>
    <param-value>200</param-value>
  </context-param>
  <servlet>
    <servlet-name>DisplayServlet</servlet-name>
    <servlet-class>test.DisplayServlet</servlet-class>
    <init-param>
      <param-name>c</param-name>
      <param-value>500</param-value>
    </init-param>
  </servlet>
  <servlet-mapping>
    <servlet-name>DisplayServlet</servlet-name>
    <url-pattern>/dis</url-pattern>
  </servlet-mapping>
  <welcome-file-list>
    <welcome-file>input.html</welcome-file>
  </welcome-file-list>
</web-app>
```

=====

=====

**Note:**

***(i) Only one ServletContext object is created for WebApplication and the information***

***in ServletContext object can be used by all the Servlet-programs and JSP-Programs***

***of Web Application.***

***(ii) Every Servlet-program and JSP-program in applications will have its own***

***ServletConfig objects.***

***(iii)when we want to send data to WebApplication then we send data to ServletContext***

***object.***

***(iv)when we want to send data to individual Servlet-program then we send data to***

***ServletConfig object***

=====

***Note:***

***=>To execute Servlet-program we need servlet-url-pattern and this Servlet-url-pattern***

***is holded by any one of the following:***

***1.Annotation***

***@WebServlet("/url")***

***2.web.xml***

***<servlet></servlet>***

***<servlet-mapping></servlet-mapping>***

=====