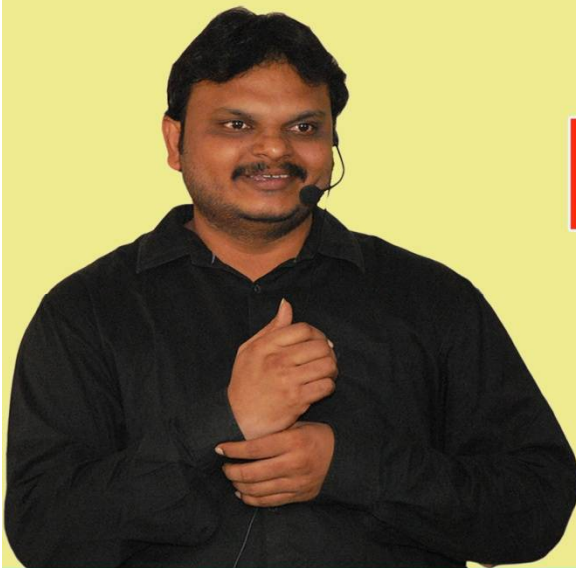


# ICON OF JAVA

# ADV. JAVA

## Servlets

### 5.User interface



**Mr. Nagoor Babu** M.Tech

**[ICON of JAVA]**

**(Sun certified & Realtime Expert)**

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# DURGASOFT

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## User Interface[Forms Design]

---

In general, in web applications there are 2 ways to prepare user forms.

1. Static Form Generation
2. Dynamic Form Generation

In case of Static Form Generation, we will prepare user form in the form of html file separately under application folder at the time of designing the application.

In case of Dynamic Form Generation, we will define user form a servlet. If we require Dynamic form then we have to access required respective servlet.

Headersapp:

---

web.xml

-----

```
<?xml version="1.0" encoding="UTF-8"?>

<web-app xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns="http://java.sun.com/xml/ns/javaee"
xsi:schemaLocation="http://java.sun.com/xml/ns/javaee
http://java.sun.com/xml/ns/javaee/web-app_2_5.xsd" id="WebApp_ID" version="2.5">

<display-name>headersapp</display-name>

<welcome-file-list>

<welcome-file>index.html</welcome-file>

<welcome-file>index.htm</welcome-file>

<welcome-file>index.jsp</welcome-file>

<welcome-file>default.html</welcome-file>

<welcome-file>default.htm</welcome-file>

<welcome-file>default.jsp</welcome-file>

</welcome-file-list>

<servlet>

<description></description>
```

# DURGASOFT Means JAVA

# JAVA Means DURGASOFT



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## JAVA Means DURGA SOFT

```
<display-name>HeadersServlet</display-name>
<servlet-name>HeadersServlet</servlet-name>
<servlet-class>com.durgasoft.HeadersServlet</servlet-class>
</servlet>
<servlet-mapping>
<servlet-name>HeadersServlet</servlet-name>
<url-pattern>/headers</url-pattern>
</servlet-mapping>
</web-app>
```

HeadersServlet.java

```
-----
package com.durgasoft;
import java.io.IOException;
import java.io.PrintWriter;
import java.util.Enumeration;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

public class HeadersServlet extends HttpServlet {
    private static final long serialVersionUID = 1L;

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

        response.setContentType("text/html");

        PrintWriter out=response.getWriter();

        Enumeration<String> e=request.getHeaderNames();
```

```
out.println("<html>");

out.println("<body><center><br><br>");

out.println("<table border='1' bgcolor='lightblue'>");

out.println("<tr><td align='center'><h3>Header Names</h3></td><td  
align='center'><h3>Header Values</h3></td></tr>");

while(e.hasMoreElements()){

    String header_Name=(String)e.nextElement();

    String header_Value=request.getHeader(header_Name);

out.println("<tr><td>"+header_Name+"</td><td>"+header_Value+"</td></tr>");

}

out.println("</table></center></body></html>");

}
```

Parametersapp:

---

registrationform.java

-----

```
<!DOCTYPE html>

<html>

<head>

<meta charset="ISO-8859-1">

<title>Insert title here</title>

</head>

<body>

<font color="red">

<h2>Durga Software Solutions</h2>

<h3>Student Registration Form</h3>
```

```
</font>

<form method="POST" action="./reg">

<table>

<tr>

    <td>Student Id</td>

    <td><input type="text" name="sid"/></td>

</tr>

<tr>

    <td>Student Name</td>

    <td><input type="text" name="sname"/></td>

</tr>

<tr>

    <td>Student Qualification</td>

    <td>

        <input type="checkbox" value="BSC" name="squal"/>BSC<br>

        <input type="checkbox" value="MCA" name="squal"/>MCA<br>

        <input type="checkbox" value="PHD" name="squal"/>PHD</br>

    </td>

</tr>

<tr>

    <td>Student Gender</td>

    <td>

        <input type="radio" value="Male" name="sgender"/>Male<br>

        <input type="radio" value="Female" name="sgender"/>Female<br>

    </td>

</tr>

<tr>
```

```
<td>Student Technologies</td>

<td>

    <select size="5" name="stech" multiple="multiple">

        <option value="C">C</option>

        <option value="C++">C++</option>

        <option value="Java">JAVA</option>

        <option value=".Net">.Net</option>

        <option value="Oracle">Oracle</option>

        <option value="Testing Tools">Testing Tools</option>

    </select>

</td>

</tr>

<tr>

<td>Branch</td>

<td>

    <select name="branch">

        <option value="Ameerpet">Ameerpet</option>

        <option value="S R Nagar">S R Nagar</option>

        <option value="Madapur">Madapur</option>

        <option value="KPHB">KPHB</option>

    </select>

</td>

</tr>

<tr>

<td>Student Address</td>

<td><textarea rows="10" cols="50" name="saddr"></textarea></td>

</tr>
```

```
<tr>

    <td><input type="submit" value="Registration"/></td>

</tr>

</table>

</form>

</body>

</html>
```

web.xml

```
-----

<?xml version="1.0" encoding="UTF-8"?>

<web-app xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns="http://java.sun.com/xml/ns/javaee"
xsi:schemaLocation="http://java.sun.com/xml/ns/javaee
http://java.sun.com/xml/ns/javaee/web-app_2_5.xsd" id="WebApp_ID" version="2.5">

    <display-name>parametersapp</display-name>

    <welcome-file-list>

        <welcome-file>index.html</welcome-file>

        <welcome-file>index.htm</welcome-file>

        <welcome-file>index.jsp</welcome-file>

        <welcome-file>default.html</welcome-file>

        <welcome-file>default.htm</welcome-file>

        <welcome-file>default.jsp</welcome-file>

    </welcome-file-list>

    <servlet>

        <description></description>

        <display-name>RegistrationServlet</display-name>

        <servlet-name>RegistrationServlet</servlet-name>
```



## JAVA Means DURGA SOFT

```
<servlet-class>com.durgasoft.RegistrationServlet</servlet-class>

</servlet>

<servlet-mapping>

<servlet-name>RegistrationServlet</servlet-name>

<url-pattern>/reg</url-pattern>

</servlet-mapping>

</web-app>
```

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+91-7207212428**

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RegistrationServlet.java

```
-----

package com.durgasoft;

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;

public class RegistrationServlet extends HttpServlet {

    private static final long serialVersionUID = 1L;
```

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

```
    response.setContentType("text/html");

    PrintWriter out=response.getWriter();

    String sid=request.getParameter("sid");

    String sname=request.getParameter("sname");

    String[] squal=request.getParameterValues("squal");

    String sgender=request.getParameter("sgender");

    String[]stech=request.getParameterValues("stech");

    String branch=request.getParameter("branch");

    String saddr=request.getParameter("saddr");

    String qual="";

    for(int i=0;i<squal.length;i++){

        qual=qual+squal[i]+"<br>";

    }

    String tech="";

    for(int j=0;j<stech.length;j++){

        tech=tech+stech[j]+"<br>";

    }

    out.println("<html>");

    out.println("<body>");

    out.println("<font color='red'>");

    out.println("<h2>Durga Software Solutions</h2>");

    out.println("<h3>Student Registration Details</h3>");

    out.println("</font>");

    out.println("<table border='1'>");
```

```
        out.println("<tr><td>Student Id</td><td>"+sid+"</td></tr>");
        out.println("<tr><td>Student Name</td><td>"+sname+"</td></tr>");
        out.println("<tr><td>Student
Qualification</td><td>"+qual+"</td></tr>");
        out.println("<tr><td>Student Gender</td><td>"+sgender+"</td></tr>");
        out.println("<tr><td>Student
Technologies</td><td>"+tech+"</td></tr>");
        out.println("<tr><td>Branch</td><td>"+branch+"</td></tr>");
        out.println("<tr><td>Student Address</td><td>"+saddr+"</td></tr>");
        out.println("</table></body></html>");
    }
}
```

Loginapp:

---

layout.html

```
-----
<!DOCTYPE html>
<frameset rows="20%,65%,15%">
    <frame src="header.html"/>
    <frameset cols="20%,80%">
        <frame src="menu.html"/>
        <frame src="welcome.html" name="body"/>
    </frameset>
    <frame src="footer.html"/>
</frameset>
```

Header.html

-----

```
<!DOCTYPE html>

<html>

<head>

<meta charset="ISO-8859-1">

<title>Insert title here</title>

</head>

<body bgcolor="maroon">

<center>

<font color="white" size="7">

<b>

DURGA SOFTWARE SOLUTIONS

</b>

</font>

</center>

</body>

</html>
```

menu.html

```
-----

<!DOCTYPE html>

<html>

<head>

<meta charset="ISO-8859-1">

<title>Insert title here</title>

</head>

<body bgcolor="lightyellow">

<br><br>
```

```
<h3>
<a href="loginform.html" target="body">Login</a>
<br><br>
<a href="registrationform.html" target="body">Registration</a>
</h3>
</body>
</html>
```

welcome.html

```
-----
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body bgcolor="lightblue">
<center>
<font color="red" size="6">
<b><br><br><br><br>
<marquee>
Welcome To Durga Software Solutions
</marquee>
</b>
</font>
</center>

</body>
```



</html>

footer.html



---

<!DOCTYPE html>

<html>

<head>

<meta charset="ISO-8859-1">

<title>Insert title here</title>

</head>

<body bgcolor="blue">

<center>

<font color="white" size="5">

<b>

copyright reserved @ Durga Software Solutions, S R Nagar

</b>

</font>

</center>

</body>

</html>

loginform.html

-----

<!DOCTYPE html>

<html>

<head>

<meta charset="ISO-8859-1">

<title>Insert title here</title>

</head>

<body bgcolor="lightblue">

<br><br>

<form method="POST" action="./login">

<center>

<table>

<tr>

<td>User Name</td>

<td><input type="text" name="uname"/></td>

</tr>

<tr>

<td>Password</td>

<td><input type="password" name="upwd"/></td>

</tr>

<tr>

<td><input type="submit" value="Login"/></td>

</tr>

</table>

```
</center>
```

```
</form>
```

```
</body>
```

```
</html>
```

registrationform.html

```
-----  
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<meta charset="ISO-8859-1">
```

```
<title>Insert title here</title>
```

```
</head>
```

```
<body bgcolor="lightblue">
```

```
<br><br>
```

```
<form method="POST" action="./reg">
```

```
<center>
```

```
<table>
```

```
<tr>
```

```
<td>User Name</td>
```

```
<td><input type="text" name="uname"/></td>
```

```
</tr>
```

```
<tr>
```

```
<td>Password</td>
```

```
<td><input type="password" name="upwd"/></td>
```

```
</tr>
```

```
<tr>
```

```
<td>User Email</td>
```

```
<td><input type="text" name="uemail"/></td>

</tr>

<tr>

<td>User Mobile Num</td>

<td><input type="text" name="umobile"/></td>

</tr>

<tr>

<td><input type="submit" value="Registration"/></td>

</tr>

</table>

</center>

</form>

</body>

</html>
```

web.xml

```
-----

<?xml version="1.0" encoding="UTF-8"?>

<web-app xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns="http://java.sun.com/xml/ns/javaee"
xsi:schemaLocation="http://java.sun.com/xml/ns/javaee
http://java.sun.com/xml/ns/javaee/web-app_2_5.xsd" id="WebApp_ID" version="2.5">

<display-name>loginapp</display-name>

<welcome-file-list>

<welcome-file>index.html</welcome-file>

<welcome-file>index.htm</welcome-file>

<welcome-file>index.jsp</welcome-file>
```

# DURGASOFT Means JAVA

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```
<welcome-file>default.html</welcome-file>

<welcome-file>default.htm</welcome-file>

<welcome-file>default.jsp</welcome-file>

</welcome-file-list>

<servlet>

<description></description>

<display-name>LoginServlet</display-name>

<servlet-name>LoginServlet</servlet-name>

<servlet-class>com.durgasoft.LoginServlet</servlet-class>

</servlet>

<servlet-mapping>

<servlet-name>LoginServlet</servlet-name>

<url-pattern>/login</url-pattern>

</servlet-mapping>

<servlet>

<description></description>

<display-name>RegistrationServlet</display-name>

<servlet-name>RegistrationServlet</servlet-name>

<servlet-class>com.durgasoft.RegistrationServlet</servlet-class>

</servlet>

<servlet-mapping>

<servlet-name>RegistrationServlet</servlet-name>

<url-pattern>/reg</url-pattern>

</servlet-mapping>

</web-app>
```

LoginServlet.html

```
-----  
  
package com.durgasoft;  
  
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;  
  
public class LoginServlet extends HttpServlet {  
  
    private static final long serialVersionUID = 1L;  
  
    protected void doPost(HttpServletRequest request, HttpServletResponse response)  
    throws ServletException, IOException {  
  
        response.setContentType("text/html");  
  
        PrintWriter out=response.getWriter();  
  
        String uname=request.getParameter("uname");  
  
        String upwd=request.getParameter("upwd");  
  
        UserService us=new UserService();  
  
        String status=us.checkLogin(uname,upwd);  
  
        out.println("<html>");  
  
        out.println("<body bgcolor='lightblue'>");  
  
        out.println("<center><br><br>");  
  
        out.println("<font color='red' size='7'>");  
  
        if(status.equals("success")){  
  
            out.println("Login Success");  
  
        }  
  
        if(status.equals("failure")){
```

## JAVA Means DURGA SOFT

```
        out.println("Login Failure");
    }
    out.println("</font></center></body></html>");
}
}
```

RegistrationServlet.java

```
-----
package com.durgasoft;
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;

public class RegistrationServlet extends HttpServlet {
    private static final long serialVersionUID = 1L;

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

        response.setContentType("text/html");
```

## JAVA Means DURGA SOFT

```
PrintWriter out=response.getWriter();

String uname=request.getParameter("uname");

String upwd=request.getParameter("upwd");

String uemail=request.getParameter("uemail");

String umobile=request.getParameter("umobile");

UserService us=new UserService();

String status=us.registration(uname,upwd,uemail,umobile);

out.println("<html>");

out.println("<body bgcolor='lightblue'>");

out.println("<center><br><br>");

out.println("<font color='red' size='7'>");

if(status.equals("success")){

    out.println("Registration Success");

}

if(status.equals("failure")){

    out.println("Registration Failure");

}

if(status.equals("existed")){

    out.println("User Existed Already");

}

out.println("</font></center></body></html>");

}

}
```

UserService.java

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```
-----  
  
package com.durgasoft;  
  
import java.sql.Connection;  
  
import java.sql.DriverManager;  
  
import java.sql.ResultSet;  
  
import java.sql.Statement;  
  
  
public class UserService {  
  
    Connection con;  
  
    Statement st;  
  
    ResultSet rs;  
  
    String status="";  
  
    public UserService() {  
  
        try {  
  
            Class.forName("oracle.jdbc.OracleDriver");  
  
            con=DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:xe", "system",  
"durga");  
  
            st=con.createStatement();  
  
        } catch (Exception e) {  
  
            e.printStackTrace();  
  
        }  
    }  
  
    public String checkLogin(String uname, String upwd){  
  
        try {  
  
            rs=st.executeQuery("select * from reg_Users where  
uname='"+uname+"' and upwd='"+upwd+"'");  
  
            boolean b=rs.next();  

```

```
        if(b==true){
            status="success";
        }else{
            status="failure";
        }
    } catch (Exception e) {

    }

    return status;
}

public String registration(String uname, String upwd, String uemail, String umobile){
    try {
        rs=st.executeQuery("select * from reg_Users where
uname='"+uname+"'");
        boolean b=rs.next();
        if(b==true){
            status="existed";
        }else{
            st.executeUpdate("insert into reg_Users
values('"+uname+"','"+upwd+"','"+uemail+"','"+umobile+"')");
            status="success";
        }
    } catch (Exception e) {
        status="failure";
        e.printStackTrace();
    }

    return status;
}
```

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+91 8096969696**

```
}
```

```
}
```

Dynamicformapp:

---

updateform.html

-----

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<meta charset="ISO-8859-1">
```

```
<title>Insert title here</title>
```

```
</head>
```

```
<body>
```

```
<font color="red">
```

```
<h2>Durga Software Solutions</h2>
```

```
<h3>Student Update Form</h3>
```

```
</font>
```

```
<form method="GET" action="./edit">
```

```
<table>
```

```
<tr>
```

```
<td>Student Id</td>
```

```
<td><input type="text" name="sid"/></td>
```

```
</tr>
```

```
<tr>
```

```
<td><input type="submit" value="GetEditForm"/></td>
```

```
</tr>
```

```
</table>
```

</form>

</body>

</html>

web.xml

-----

<?xml version="1.0" encoding="UTF-8"?>

<web-app xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"  
xmlns="http://java.sun.com/xml/ns/javaee"  
xsi:schemaLocation="http://java.sun.com/xml/ns/javaee  
http://java.sun.com/xml/ns/javaee/web-app\_2\_5.xsd" id="WebApp\_ID" version="2.5">

<display-name>dynamicformapp</display-name>

<welcome-file-list>

<welcome-file>updateform.html</welcome-file>

</welcome-file-list>

<servlet>

<description></description>

<display-name>EditFormServlet</display-name>

<servlet-name>EditFormServlet</servlet-name>

<servlet-class>com.durgasoft.EditFormServlet</servlet-class>

</servlet>

<servlet-mapping>

<servlet-name>EditFormServlet</servlet-name>

<url-pattern>/edit</url-pattern>

</servlet-mapping>

<servlet>

<description></description>

<display-name>UpdateServlet</display-name>



## JAVA Means DURGA SOFT

```
<servlet-name>UpdateServlet</servlet-name>

<servlet-class>com.durgasoft.UpdateServlet</servlet-class>

</servlet>

<servlet-mapping>

<servlet-name>UpdateServlet</servlet-name>

<url-pattern>/update</url-pattern>

</servlet-mapping>

</web-app>
```

## DURGASOFT Means JAVA JAVA Means DURGASOFT



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EditFormServlet.java

```
-----

package com.durgasoft;

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;


public class EditFormServlet extends HttpServlet {

    private static final long serialVersionUID = 1L;


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

        response.setContentType("text/html");

        PrintWriter out=response.getWriter();

        String sid=request.getParameter("sid");

        StudentService ss=new StudentService();

        StudentTo sto=ss.getStudent(sid);

        if(sto==null){

            out.println("<html>");

            out.println("<body>");

            out.println("<br><br>");

            out.println("<font color='red' size='6'>");

            out.println("Student Not Existed");

            out.println("</font>");

            out.println("<br><br>");

            out.println("<h3><a href='./updateform.html'>|Update  
Form|</a></h3>");

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

        }else{
```

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```
        out.println("<html>");
        out.println("<body>");
        out.println("<font color='red'>");
        out.println("<h2>Durga Software Solutions</h2>");
        out.println("<h3>Student Edit Form</h3>");
        out.println("</font>");
        out.println("<form method='GET' action='./update'>");
        out.println("<table>");
        out.println("<tr><td>Student Id</td><td>"+sid+"</td></tr>");
        out.println("<input type='hidden' name='sid' value='"+sid+"'>");
        out.println("<tr><td>Student Name</td><td><input type='text'
        name='sname' value='"+sto.getSname()+"'/></td></tr>");
        out.println("<tr><td>Student Address</td><td><input type='text'
        name='saddr' value='"+sto.getSaddr()+"'/></td></tr>");
        out.println("<tr><td><input type='submit'
        value='Update'/></td></tr>");
        out.println("</table></form></body></html>");
    }
}
}
```

UpdateServlet.java

-----  
package com.durgasoft;

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;

public class UpdateServlet extends HttpServlet {

    private static final long serialVersionUID = 1L;

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

        response.setContentType("text/html");

        PrintWriter out=response.getWriter();

        String sid=request.getParameter("sid");

        String sname=request.getParameter("sname");

        String saddr=request.getParameter("saddr");

        StudentService ss=new StudentService();

        String status=ss.update(sid,sname,saddr);

        out.println("<html>");

        out.println("<body>");

        out.println("<h2>");

        out.println("<br><br>");

        if(status.equals("success")){

            out.println("Student Updated Successfully<br>");

        }else{

            out.println("Student Updation Failure<br>");

        }

        out.println("<a href='./update_form.html'>|Update Form|</a>");

        out.println("</h2></body></html>");

    }

}
```

```
    }  
}  
  
StudentService.java  
-----  
  
package com.durgasoft;  
  
import java.sql.Connection;  
  
import java.sql.DriverManager;  
  
import java.sql.ResultSet;  
  
import java.sql.Statement;  
  
  
public class StudentService {  
  
    Connection con;  
  
    Statement st;  
  
    ResultSet rs;  
  
    String status="";  
  
    StudentTo sto;  
  
    public StudentService() {  
  
        try {  
  
            Class.forName("oracle.jdbc.OracleDriver");  
  
            con=DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:xe","system","  
durga");  
  
            st=con.createStatement();  
  
        } catch (Exception e) {  
  
            e.printStackTrace();  
  
        }  
  
    }  
  
    public StudentTo getStudent(String sid){
```



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```
try {

    rs=st.executeQuery("select * from student where sid='"+sid+"'");

    boolean b=rs.next();

    if(b==true){

        sto=new StudentTo();

        sto.setSid(rs.getString(1));

        sto.setSname(rs.getString(2));

        sto.setSaddr(rs.getString(3));

    }else{

        sto=null;

    }

} catch (Exception e) {

}

return sto;

}

public String update(String sid, String sname, String saddr){

    try {

        st.executeUpdate("update student set

sname='"+sname+"',saddr='"+saddr+"' where sid='"+sid+"'");

        status="success";

    } catch (Exception e) {

        status="failure";

        e.printStackTrace();

    }

    return status;

}
```

```
}
```

StudentTo.java

-----

```
package com.durgasoft;

public class StudentTo {

    private String sid;

    private String sname;

    private String saddr;

    public String getSid() {

        return sid;

    }

    public void setSid(String sid) {

        this.sid = sid;

    }

    public String getSname() {

        return sname;

    }

    public void setSname(String sname) {

        this.sname = sname;

    }

    public String getSaddr() {

        return saddr;

    }

    public void setSaddr(String saddr) {

        this.saddr = saddr;

    }

}
```

}

}

## Welcome Files:

---

In general, in all the web applications some pages like login pages, index pages, home pages and so on are the first pages.

In the above context, to access the first pages we have to specify the respective html page name or jsp page name as resource name in URL eventhough they are common for each and every user.

To overcome the problem, we have to declare the respective html or jsp page as welcome file.

**Welcome file** is the first page of the web application, it must be executed by the container automatically when we access the respective application without specifying resource name in URL.

To declare welcome file in web.xml file, we have to use the following xml tags.

**Ex:** <web-app>

<welcome-file-list>

<welcome-file>file1 </welcome-file>

<welcome-file>file1 </welcome-file>

-----

</welcome-file-list>

-----

</web-app>

From the above tags representation, it is possible to provide more than one welcome file with in a single web application but w.r.t. multiple no. of modules.

If we provide more than one welcome file with in a single web application w.r.t. modules the container will search for the respective welcome file as per the order in which we configured web.xml file.

## Smooth Deployment:

---

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In general, we will prepare web applications with Tomcat server by creating the entire web application directly structure under webapps folder.

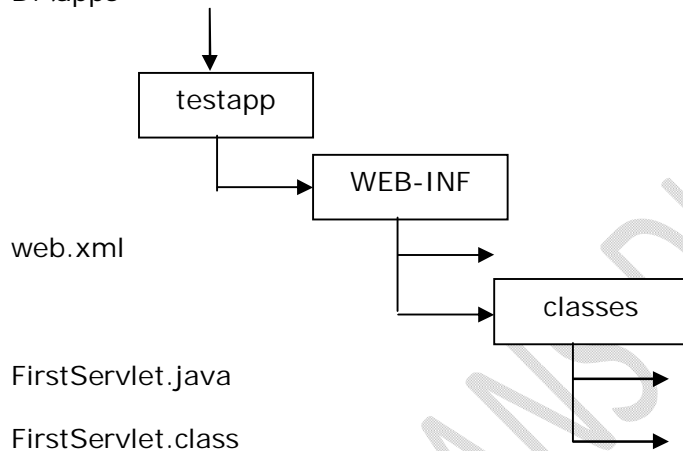
In this case, when we start the server then automatically the prepared web application will be deployed into the server.

The above approach to deploy the web applications is called **Hard Deployment**, it is not suggestible.

To perform Smooth Deployment for web applications we have to use the following steps.

**Step 1:** Prepare web application separately.

D:\apps



**Step 2:** Prepare war file for the web application by using the following command.

```
D:\apps\testapp>jar -cvf testapp.war *.*
```

**Step 3:** Start the Tomcat server and open Manager Applications.

<http://localhost:1010/manager/html/>

**Step 4:** Upload war file in order to deploy web application.

Go to war file to deploy section in Tomcat Web Application Manager, select war file by click on Browse button and click on Deploy button.

If we click on Deploy button then automatically uploaded war file will be deployed onto the Tomcat server with war file name as Application Context.

**Step 5:** Access the application.

## Weblogic Server:

Weblogic Server is an Application server introduced by Bea, it will provide very good middle ware services like JNDA, JTA, Security and so on.

Weblogic\_10.3 version is compatible with jdk6 and it able to provide support for servlet2.5 and jsp2.1.

To deploy and execute web applications in Weblogic server we have to use the following steps.

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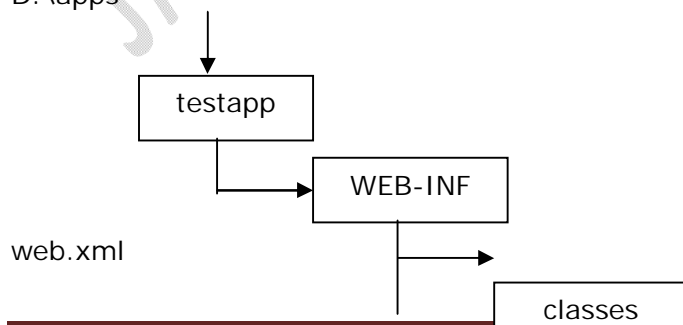
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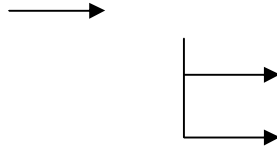
## Step 1: Prepare web application and its war file.

D:\apps



FirstServlet.java

FirstServlet.class



In the above application, we have to compile all the servlets under Weblogic environment.

To achieve this, we have to set CLASSPATH environment variable to weblogic.jar file provided by Weblogic server.

```
D:\apps\testapp\WEB-INF\classes>setclasspath=C:\bea\wlserver_10.3\
server\lib\weblogic.jar;
```

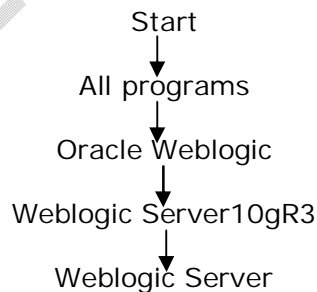
```
D:\apps\testapp\WEB-INF\classes>javac *.java
```

To prepare war file we have to use the following command on command prompt.

```
D:\apps\testapp>jar -cvf testapp1.war *.*
```

## Step 2: Start Weblogic server and open Administration Console.

To start Weblogic server we have to use the following path.



If we do the above then Weblogic server will start and it will open welcome page of Weblogic server.

To open Administration Console we have to use the following path.

Click on Start the Administration Console button



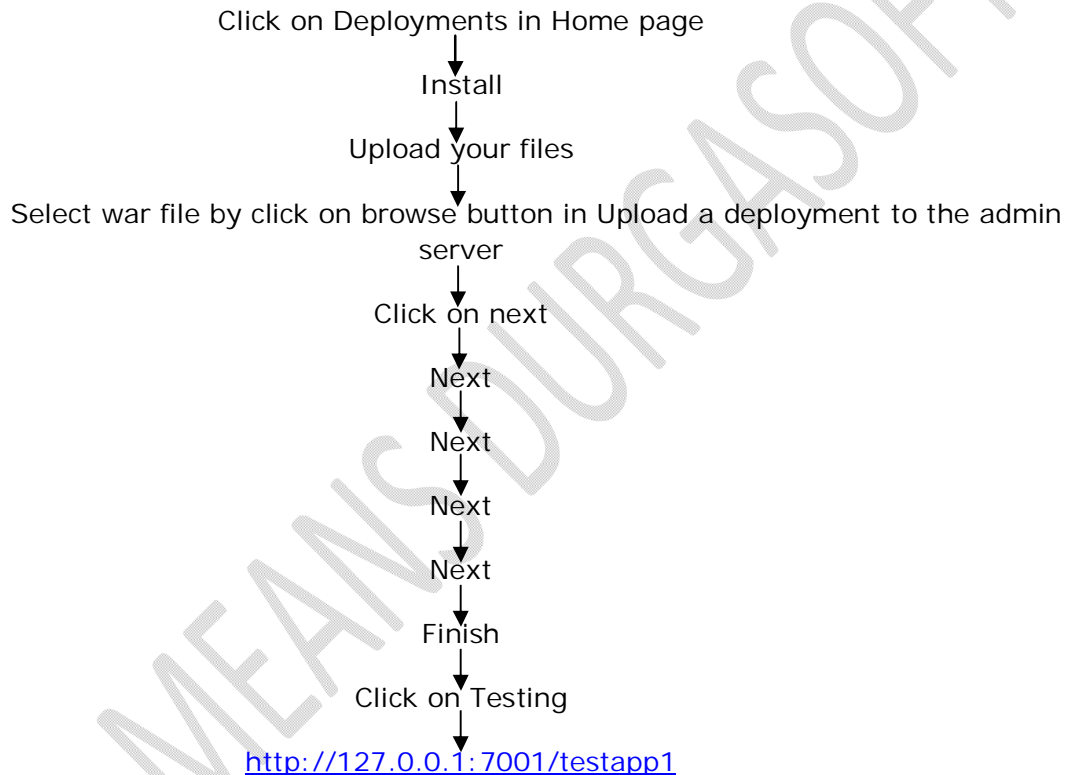
If we do the above then Weblogic server Administration Console will be open, where we have to provide browser name (weblogic) and password (weblogic) and finally click on login button.

If we click on login button then Weblogic server will open Home page.

### Step 3: Deploy and access the web application.

---

To deploy web application we have to use the following path.



reference of ServletContext object and so on.

ServletConfig is an object, it will provide the complete view of a particular servlet.

In web application, container will prepare ServletConfig objects individual to each and every servlet.

In web application execution, container will prepare ServletConfig object immediately after servlet instantiation and just before calling init(\_) method in servlet initialization.

Container will destroy the ServletConfig object just before servlet deinstantiation.

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Due to the above reasons, the life cycle of ServletConfig object is upto a particular servlet.

If we declare any data in ServletConfig object then that data will be shared upto the respective servlet.

Due to the above reason, the scope of ServletConfig object is upto a particular servlet.

In web applications, ServletConfig object will allow only parameters data, it will not allow attributes data.

In web applications, there are 2 ways to get ServletConfig object .

1. Use getServletConfig() method from Servlet interface

**Ex:** ServletConfig config=getServletConfig();

2. Override init(\_) method

**Ex:** public class MyServlet extends HttpServlet {

ServletConfig config;

public void init(ServletConfig config){

this.config=config;

}

-----

}

To get logical name of the servlet from its ServletConfig object we have to use the following method.

public String getServletName()

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**Ex:** String lname=config.getServletName();

If we want to provide initialization parameters inServletConfig object then first we have to declare them in web.xml file.

To declare initialization parameters in web.xml file we have to use the following xml tags.

```
<web-app>

<servlet>

<init-param>

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

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

</init-param>

-----

</servlet>

-----

</web-app>
```

If we declare initialization parameters with the above approach then container will read them and store onto ServletConfig object at the time of creation when it receives request from the client.

To get a particular initialization parameter from ServletConfig object we have to use the following method.

```
public String getInitParameter (String name)
```

**Ex:** String a=config.getInitParameter("a");

To get all the initialization parameters from ServletConfig object we have to use the following method.

```
public Enumeration getInitParameterNames()
```

**Ex:** Enumeration e=config.getInitParameterNames();

-----Application by using ServletConfig-----

**configapp:-**

web.xml:

```
<web-app>
<servlet>
<servlet-name>MyServlet</servlet-name>
<servlet-class>MyServlet</servlet-class>
<init-param>
<param-name>driver</param-name>
<param-value>sun.jdbc.odbc.JdbcOdbcDriver</param-value>
</init-param>
<init-param>
<param-name>url</param-name>
<param-value>jdbc:odbc:sri</param-value>
</init-param>
<init-param>
<param-name>user</param-name>
<param-value>system</param-value>
</init-param>

<init-param>
<param-name>password</param-name>
<param-value>durga</param-value>
</init-param>
</servlet>
<servlet-mapping>
<servlet-name>MyServlet</servlet-name>
<url-pattern>/config</url-pattern>
</servlet-mapping>
</web-app>
```

MyServlet.java:

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

import javax.servlet.ServletConfig;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

public class MyServlet extends HttpServlet {

    protected void doGet(HttpServletRequest request, HttpServletResponse response)
    throws ServletException, IOException {
        response.setContentType("text/html");
        PrintWriter out=response.getWriter();
        ServletConfig config=getServletConfig();
        String logicalName=config.getServletName();
        String driver=config.getInitParameter("driver");
        String url=config.getInitParameter("url");
        String user=config.getInitParameter("user");
        String password=config.getInitParameter("password");
        out.println("<html><body><h1>");
```



```
        out.println("Logical Name: "+logicalName+"<br><br>");  
        out.println("Driver      : "+driver+"<br><br>");  
        out.println("Url        : "+url+"<br><br>");  
        out.println("User       : "+user+"<br><br>");  
        out.println("Password   : "+password+"<br><br>");  
        out.println("</h1></body></html>");  
    }  
}
```

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