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Simple Webapplication using Servlet and JSP

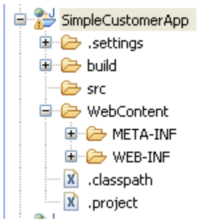
October 13, 2011 sabapathy Leave a comment Go to comments

Here in this post we will see simple web application using Servlet and JSP where we are going to give customer details in JSP page then get the customer details in servlet and show the customer details inserted in Welcome page.

Environment used:
1. Eclipse 3.3
2. JDK6
3. Tomcat Servler 6.x

1. Create "Dynamic Web Project" with **Dynamic web module version – 2.5** Then Click **Finish**.

Web application structure in eclipse will look like this.



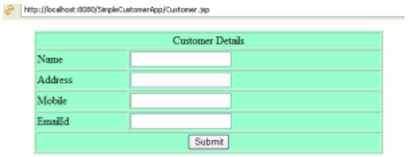
```
SimpleCustomerApp
    .settings
    build
    src
    WebContent
        META-INF
        WEB-INF
    .classpath
    .project
```

WebAppStructure

2. Create a **Customer.jsp** page inside **WebContent** folder of web application structure.

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
<title>Customer Details</title>
</head>
<body>
<form action="insertCustomer" method="post">
<table align="center" bgcolor="#99FFCC" border="1" width="70%">
        <tr>
                <td colspan="2" align="center">Customer Details </td>
        </tr>
        <tr>
                <td>Name </td>
                <td><input type="text" name="name" maxlength="25"></td>
        </tr>
        <tr>
                <td>Address </td>
                <td><input type="text" name="address" maxlength="40"></td>
        </tr>
        <tr>
                <td>Mobile </td>
                <td><input type="text" name="mobile" maxlength="10"></td>
        </tr>
        <tr>
                <td>EmailId </td>
                <td><input type="text" name="emailid" maxlength="30"></td>
        </tr>
        <tr>
                <td colspan="2" align="center"><input type="submit" value="Submit"></td>
        </tr>
</table>
</form>
</body>
</html>
```

This customer page will look like the below.



CustomerPage

3. Create a **InsertCustomerServlet.java** servlet class. While submitting the form from the "Customer.jsp" page the servlet will get the form value in **HttpServletRequest** object .

```
package com.room.sample.servlet;

import java.io.IOException;

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

import com.room.sample.view.Customer;

public class InsertCustomerServlet extends HttpServlet{

        private static final long serialVersionUID = 1L;
        public void doPost(HttpServletRequest request, HttpServletResponse response){
                System.out.println("----- InsertCustomerServlet -----");
                try {
                // Get the customer value submitted from Customer.jsp page through HttpServletRequest object
                        String name=request.getParameter("name");
                        String address=request.getParameter("address");
                        String mobile=request.getParameter("mobile");
                        String emailid=request.getParameter("emailid");

                        //Set the Customer values into Customer Bean or POJO(Plain Old Java Object) class
                        Customer customer=new Customer();
                        customer.setName(name);
                        customer.setAddress(address);
                        customer.setMobile(Long.valueOf(mobile));
                        customer.setEmailid(emailid);

                        RequestDispatcher dispatcher=request.getRequestDispatcher("/Welcome.jsp");
                        //Set the customer instance into request.Then only the customer object
                        //will be available in the Welcome.jsp page
                        request.setAttribute("cust",customer);
                        dispatcher.forward(request, response);
                } catch (ServletException e) {
                        e.printStackTrace();
                } catch (IOException e) {
                        e.printStackTrace();
                }catch(Exception e){
                        e.printStackTrace();
                }

        }

}
```

4. Bean Class to store information received in Servlet class.

```
package com.room.sample.view;

import java.io.Serializable;

public class Customer implements Serializable{

        private static final long serialVersionUID = 1L;
        private String name;
        private String address;
        private Long mobile;
        private String emailid;
        public String getName() {
                return name;
        }
        public void setName(String name) {
                this.name = name;
        }
        public String getAddress() {
                return address;
        }
        public void setAddress(String address) {
                this.address = address;
        }
        public Long getMobile() {
                return mobile;
        }
        public void setMobile(Long mobile) {
                this.mobile = mobile;
        }
        public String getEmailid() {
                return emailid;
        }
        public void setEmailid(String emailid) {
                this.emailid = emailid;
        }

}
```

5. Create **Welcome.jsp** page to display the customer details processed.

```
<%@page import="com.room.sample.view.Customer"%>
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
<title>View Customer Details</title>
</head>
<body>
<%
        Customer customer=(Customer)request.getAttribute("cust");
%>
<table align="center" bgcolor="#FFFFCC" border="1" width="70%">
        <tr>
                <td colspan="2" align="center"><%="Welcome "+customer.getName()+" !!!!. Your details Processed." %></td>
        </tr>
        <tr>
                <td>Name </td>
                <td><%=customer.getName()%></td>
        </tr>
        <tr>
                <td>Address </td>
                <td><%=customer.getAddress() %></td>
        </tr>
        <tr>
                <td>Mobile </td>
                <td><%=String.valueOf(customer.getMobile()) %></td>
        </tr>
        <tr>
                <td>EmailId </td>
                <td><%=customer.getEmailid() %></td>
        </tr>
</table>
</body>
</html>
```

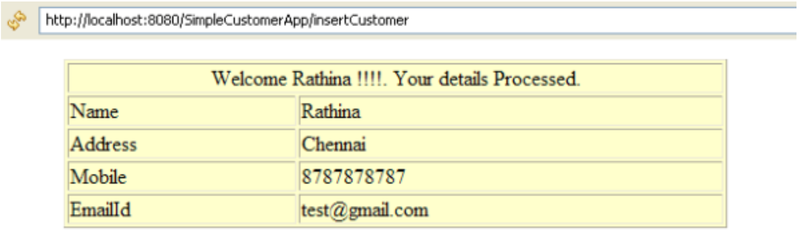
6. Connect the flow using **web.xml**. For a servlet defined , the element value under element and element value under should be same.
Then only the requested action **“insertCustomer”** can find the corresponsing servlet to be executed from **web.xml** file.

```
<?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" xmlns:web="http://java.sun.com/xml/ns/javaee/web-
  <display-name>Simple Customer Application</display-name>
  <welcome-file-list>
    <welcome-file>Customer.jsp</welcome-file>
  </welcome-file-list>

  <servlet>
        <servlet-name>customer</servlet-name>
        <servlet-class>com.room.sample.servlet.InsertCustomerServlet</servlet-class>
  </servlet>

  <servlet-mapping>
        <servlet-name>customer</servlet-name>
        <url-pattern>/insertCustomer</url-pattern>
  </servlet-mapping>
</web-app>
```

Welcome.jsp page will look like the below.



http://localhost:8080/SimpleCustomerApp/insertCustomer

Welcome Rathina !!!!. Your details Processed.	
Name	Rathina
Address	Chennai
Mobile	8787878787
EmailId	test@gmail.com

Welcome

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