

Dt:21/5/2022

Assignment-1:(Solution)

Construct Servlet Application to read and display Product details?

product.html

```
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
<form action="dis" method="post">
ProductCode:<input type="text" name="pcode"><br>
ProductName:<input type="text" name="pname"><br>
ProductPrice:<input type="text" name="pprice"><br>
ProductQty:<input type="text" name="pqty"><br>
<input type="submit" value="Display">
</form>
</body>
</html>
```

DisplayServlet.java

```
package test;

import java.io.*;

import javax.servlet.*;

import javax.servlet.annotation.*;

@SuppressWarnings("serial")

@WebServlet("/dis")

public class DisplayServlet extends GenericServlet{

    public void init()throws ServletException{

        //NoCode

    }
```

```

public void service(ServletRequest req,ServletResponse res)
throws ServletException,IOException{

    String pC = req.getParameter("pcode");

    String pN = req.getParameter("pname");

    float pP = Float.parseFloat(req.getParameter("pprice"));

    int pQ = Integer.parseInt(req.getParameter("pqty"));

    PrintWriter pw = res.getWriter();

    res.setContentType("text/html");

    pw.println("ProdCode:"+pC);

    pw.println("<br>ProdName:"+pN);

    pw.println("<br>ProdPrice:"+pP);

    pw.println("<br>ProdQty:"+pQ);

}

public void destroy() {

    //NoCode

}

}

```

web.xml

```

<?xml version="1.0" encoding="UTF-8"?>
<web-app>
    <welcome-file-list>
        <welcome-file>product.html</welcome-file>
    </welcome-file-list>
</web-app>

```

Note:

=>we use `getRequestDispatcher()` method from `ServletRequest` to create the

implementation object of 'RequestDispatcher' interface.

syntax:

```
RequestDispatcher rd = req.getRequestDispatcher("url-pattern/HTML/JSP");
```

```
rd.forward(req,res);
```

```
rd.include(req,res);
```

Ex:

input.html

```
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
<form action="choice" method="post">
Enter the Value1:<input type="text" name="v1"><br>
Enter the Value2:<input type="text" name="v2"><br>
<input type="submit" value="Add" name="s1">
<input type="submit" value="Sub" name="s1">
</form>
</body>
</html>
```

ChoiceServlet.java

```
package test;
```

```
import java.io.*;
```

```
import javax.servlet.*;
```

```
import javax.servlet.annotation.*;
```

```
@SuppressWarnings("serial")
```

@WebServlet("/choice")

public class ChoiceServlet extends GenericServlet{

public void init()throws ServletException{

//NoCode

}

public void service(ServletRequest req,ServletResponse res)

throws ServletException,IOException{

String s1 = req.getParameter("s1");

if(s1.equals("Add")) {

RequestDispatcher rd=req.getRequestDispatcher("ad");

rd.forward(req, res);

}else {

RequestDispatcher rd=req.getRequestDispatcher("sb");

rd.forward(req, res);

}

}

public void destroy() {

//NoCode

}

}

AdditionServlet.java

package test;

import java.io.*;

import javax.servlet.*;

```
import javax.servlet.annotation.*;

@SuppressWarnings("serial")

@WebServlet("/ad")

public class AdditionServlet extends GenericServlet{

    public void init()throws ServletException{

        //NoCode

    }

    public void service(ServletRequest req,ServletResponse res)

    throws ServletException,IOException{

        int v1 = Integer.parseInt(req.getParameter("v1"));

        int v2 = Integer.parseInt(req.getParameter("v2"));

        int v3 = v1+v2;

        PrintWriter pw = res.getWriter();

        res.setContentType("text/html");

        pw.println("Sum:"+v3+"<br>");

        RequestDispatcher rd = req.getRequestDispatcher("input.html");

        rd.include(req, res);

    }

    public void destroy() {

        //NoCode

    }

}

SubtractionServlet.java

package test;
```

```
import java.io.*;

import javax.servlet.*;

import javax.servlet.annotation.*;

@SuppressWarnings("serial")

@WebServlet("/sb")

public class SubtractionServlet extends GenericServlet{

    public void init()throws ServletException{

        //NoCode

    }

    public void service(ServletRequest req,ServletResponse res)

    throws ServletException,IOException{

        int v1 = Integer.parseInt(req.getParameter("v1"));

        int v2 = Integer.parseInt(req.getParameter("v2"));

        int v3 = v1-v2;

        PrintWriter pw = res.getWriter();

        res.setContentType("text/html");

        pw.println("Sub:"+v3+"<br>");

        RequestDispatcher rd = req.getRequestDispatcher("input.html");

        rd.include(req, res);

    }

    public void destroy() {

        //NoCode

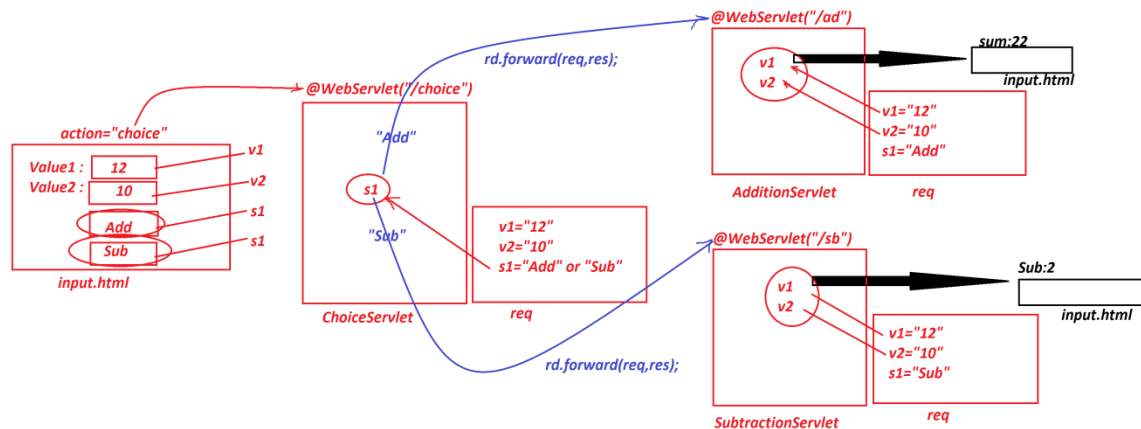
    }

}
```

web.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<web-app>
  <welcome-file-list>
    <welcome-file>input.html</welcome-file>
  </welcome-file-list>
</web-app>
```

Diagram:



Assignment-1:

Update above application with the following :

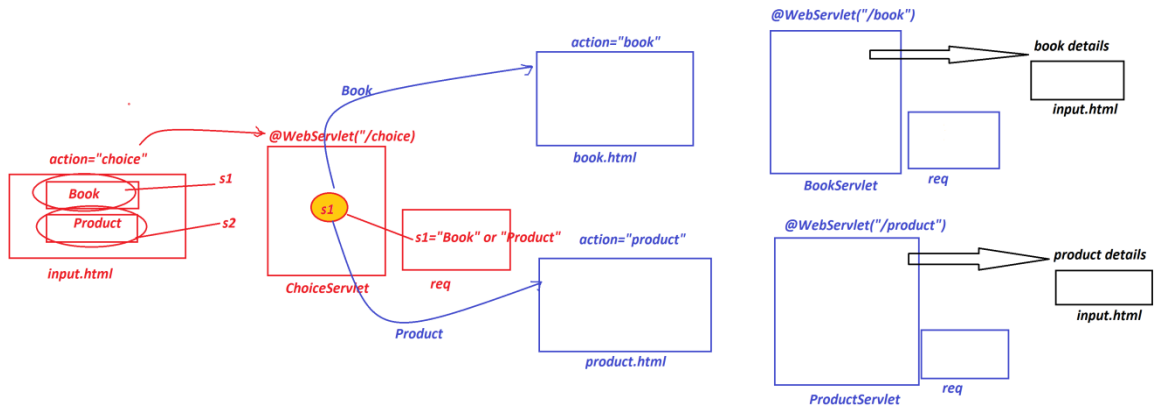
=>MultiplicationServlet

=>DivisionServlet

=>ModuloDivisionServlet

Assignment-2:

Construct Servlet Application using the following Layout:



=====

Venkatesh Maipatru