Dt : 10/2/2025
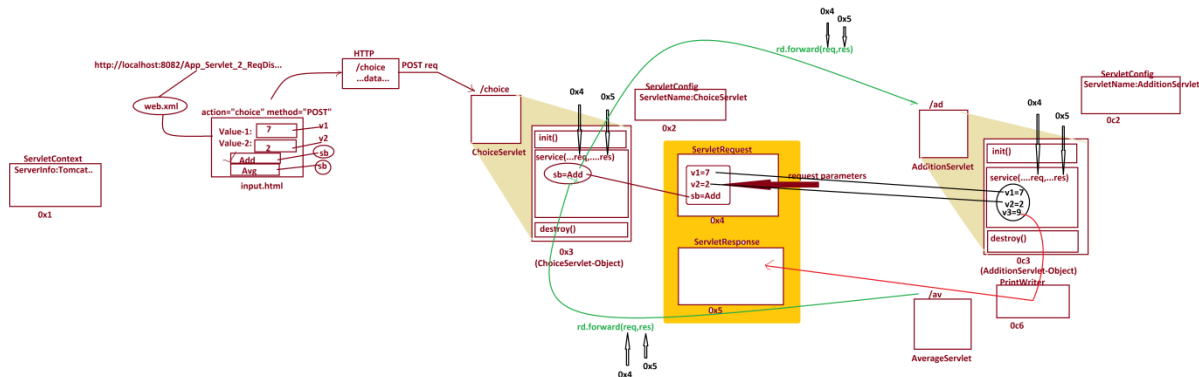
Application:(Demonstrating 'RequestDispatcher')

Layout:

input.html

```html
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
<form action="choice" method="post">
Enter the Value-1:<input type="text" name="v1"><br>
Enter the Value-2:<input type="text" name="v2"><br>
<input type="submit" value="Add" name="sb">
<input type="submit" value="Avg" name="sb">
</form>
</body>
</html>
```

web.xml

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

<web-app>
  <welcome-file-list>
     <welcome-file>input.html</welcome-file>
  </welcome-file-list>
</web-app>
```

ChoiceServlet.java

```java
package test;

import java.io.*;

import jakarta.servlet.*;

import jakarta.servlet.annotation.*;

@SuppressWarnings("serial")

@WebServlet("/choice")

public class ChoiceServlet extends GenericServlet
{
        @Override
 public void service(ServletRequest req,ServletResponse res)throws ServletException,

 IOException

 {

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

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

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

                rd.forward(req, res);

        }else {

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

                rd.forward(req, res);

        }

 }

}
```

AdditionServlet.java

```java
package test;

import java.io.*;

import jakarta.servlet.*;

import jakarta.servlet.annotation.*;

@SuppressWarnings("serial")

@WebServlet("/ad")

public class AdditionServlet extends GenericServlet
{
        @Override
  public void service(ServletRequest req,ServletResponse res)throws ServletException,

  IOException

  {
                PrintWriter pw = res.getWriter();

                res.setContentType("text/html");

                try {

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

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

                        int v3 = v1+v2;

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

                }catch(Exception e) {

                        pw.println("Enter Only Integer Values....<br>");

                }

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

                rd.include(req, res);

  }
```

}

AverageServlet.java

package test;

import java.io.;*

import jakarta.servlet.;*

import jakarta.servlet.annotation.;*

@SuppressWarnings("serial")

@WebServlet("/av")

public class AverageServlet extends GenericServlet

{

      @Override

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

  IOException

  {

           PrintWriter pw = res.getWriter();

           res.setContentType("text/html");

           try {

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

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

                float v3 = (float)(v1+v2)/2;

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

           }catch(Exception e) {

                *pw.println("Enter only Integer values...
");*

           }

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

        rd.include(req, res);

   }

}
```

Assignment:

Update above application with the following operations on two integer values:

   =>Sub

   =>Mul

   =>Div

   =>ModDiv

   =>Greater

   =>Smaller