EXP 5 HTTP GET and POST methods

AIM:

To demonstrate the difference between HTTP GET and POST methods using a Java Servlet by creating a form that sends data using both methods.

ALGORITHM:

- Step 1: Create an HTML form with GET and POST methods.
- Step 2: Develop a Servlet (GetPostServlet.java) to handle requests.
- Step 3: Implement doGet () to handle GET requests.
- Step 4: Implement doPost () to handle POST requests.
- Step 5: Configure web.xml to map the Servlet to /GetPostServlet.
- Step 6: Run the server and observe how GET and POST work differently.

PROGRAM:

index.html (Form Page)

```
<!DOCTYPE html>
<html lang="en">
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>GET vs POST Servlet Demo</title>
   <link rel="stylesheet" href="styles.css">
    <div class="container">
       <h2>GET vs POST Servlet Demo</h2>
       <div class="form-container">
           <h3>Submit with GET</h3>
           <form action="getServlet" method="GET">
                <input type="text" name="name" placeholder="Enter Name" required>
               <input type="number" name="age" placeholder="Enter Age" required>
               <button type="submit" class="get-button">Submit (GET)
           </form>
           <h3>Submit with POST</h3>
            <form action="postServlet" method="POST">
                <input type="text" name="name" placeholder="Enter Name" required>
                <input type="number" name="age" placeholder="Enter Age" required>
               <button type="submit" class="post-button">Submit (POST)/button>
```

styles.css

```
body {
    font-family: Arial, sans-serif;
    background: linear-gradient(to right, #6a0dad, #a855f7, #d8b4fe);
    display: flex;
    justify-content: center;
    align-items: center;
    height: 100vh;
    margin: 0;
.container {
    text-align: center;
    background: #f3e8ff;
    padding: 20px;
    border-radius: 10px;
    box-shadow: 0px 4px 10px rgba(0, 0, 0, 0.1);
    width: 350px;
h2 {
    color: #6a0dad;
h3 {
    color: #5b21b6;
    margin-top: 20px;
input {
    width: 90%;
    padding: 10px;
    margin: 10px 0;
    border: 1px solid #a855f7;
    border-radius: 5px;
button {
    width: 100%;
    padding: 10px;
    border: none;
    color: white;
    font-size: 16px;
    cursor: pointer;
    border-radius: 5px;
```

```
.get-button {
    background-color: #7c3aed;
}
.get-button:hover {
    background-color: #6d28d9;
}
.post-button {
    background-color: #9333ea;
}
.post-button:hover {
    background-color: #7e22ce;
}
.form-container {
    background: white;
    padding: 20px;
    border-radius: 10px;
    box-shadow: 0px 4px 8px rgba(0, 0, 0, 0.1);
}
```

GetPostServlet.java (Servlet to Handle GET & POST)

```
java CopyEdit
import java.io.IOException; import java.io.PrintWriter;
import javax.servlet.ServletException; import javax.servlet.annotation.WebServlet; import
javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest; import
javax.servlet.http.HttpServletResponse;
@WebServlet("/GetPostServlet")
public class GetPostServlet extends HttpServlet { private static final long
serialVersionUID = 1L;
// Handling GET Request
protected void doGet(HttpServletRequest request, HttpServletResponse response) throws
ServletException, IOException {
response.setContentType("text/html"); PrintWriter out = response.getWriter();
String name = request.getParameter("username");
out.println("<html><body>"); out.println("<h2>GET Method Received</h2>");
out.println("Hello, <b>" + name + "</b>! Data sent using GET.");
out.println("</body></html>");
// Handling POST Request
protected void doPost(HttpServletRequest request, HttpServletResponse response) throws
ServletException, IOException {
response.setContentType("text/html");    PrintWriter out = response.getWriter();
String name = request.getParameter("username");
```

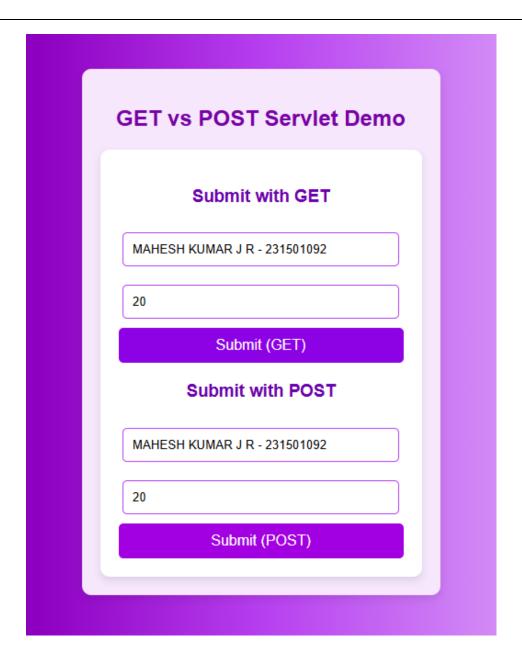
```
out.println("<html><body>"); out.println("<h2>POST Method Received</h2>");
out.println("Hello, <b>" + name + "</b>! Data sent using POST.");
out.println("</body></html>");
}
```

web.xml (Servlet Configuration)

```
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<mbox
<mbox
CopyEdit
<pre>
<mbox
<mbox
com/sml/ns/javaee" version="3.0">
<mbox
com/sml/ns/javaee</mbox
```

OUTPUT:



RESULT: The Get and Post methods were executed successfully.