

# **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)**

```
html CopyEdit
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>GET vs POST Demo</title>
    <link rel="stylesheet" href="styles.css">
</head>
<body>
    <div class="container">
        <h2>Choose GET or POST Method <img alt="calculator icon" style="vertical-align: middle;"></h2>
        <form action="GetPostServlet" method="GET">
            <input type="text" name="username" placeholder="Enter your name" required>
            <button type="submit">Submit with GET</button>
        </form>

        <form action="GetPostServlet" method="POST">
            <input type="text" name="username" placeholder="Enter your name" required>
            <button type="submit">Submit with POST</button>
        </form>
    </div>
</body>
```

```
</div>
</body> </html>

styles.css

css
CopyEdit body
{
    font-family: 'Poppins', sans-serif;
    background: linear-gradient(to right, #36D1DC, #5B86E5);
    text-align: center;    display: flex;    justify-content: center;
    align-items: center;   height: 100vh;   margin: 0;
}

.container {
background: #fff;
padding: 20px;
border-radius: 15px;
    box-shadow: 0 4px 8px rgba(0, 0, 0, 0.2);
width: 300px;
}

h2 {    color:
#5B86E5;
}

input {    width: 90%;
padding: 10px;    margin:
10px 0;    border: 1px solid
#5B86E5;    border-radius:
8px;    text-align: center;
}

button {    background:
#36D1DC;    color:
white;    border: none;
padding: 10px 15px;
border-radius: 8px;
cursor: pointer;
transition: 0.3s;
}

button:hover {
    background: #1e6e8c; }
```

**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("<p>Hello, <b>" + name + "</b>! Data sent using GET.</p>");
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("<p>Hello, <b>" + name + "</b>! Data sent using POST.</p>");
out.println("</body></html>");
    }
}

```

### **web.xml (Servlet Configuration) xml**

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```

<web-app xmlns="http://java.sun.com/xml/ns/javaee" version="3.0">
<servlet>
    <servlet-name>GetPostServlet</servlet-name>
    <servlet-class>GetPostServlet</servlet-class>
</servlet>
<servlet-mapping>
    <servlet-name>GetPostServlet</servlet-name>
    <url-pattern>/GetPostServlet</url-pattern>
</servlet-mapping>

```

</web-app>

**OUTPUT:**

## GET vs POST Demonstration

### GET Method

mani shankar raju

20

Submit (GET)

### POST Method

mani shankar raju

20

Submit (POST)

**RESULT:** The Get and Post methods were executed successfully.