

## **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">
<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 
```

```
styles.css  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 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,
HttpServletRequest 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,
HttpServletRequest 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 Method Demo 🚀

Marcellus R

Submit with GET

Marcellus R

✅ **GET Method Used**

**Name:** Marcellus R

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