

## 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 

<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> </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**

CopyEdit

```
<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:**

### Submit with GET

### Submit with POST



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