

## 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 🚀</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>

</html>

### 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, 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");

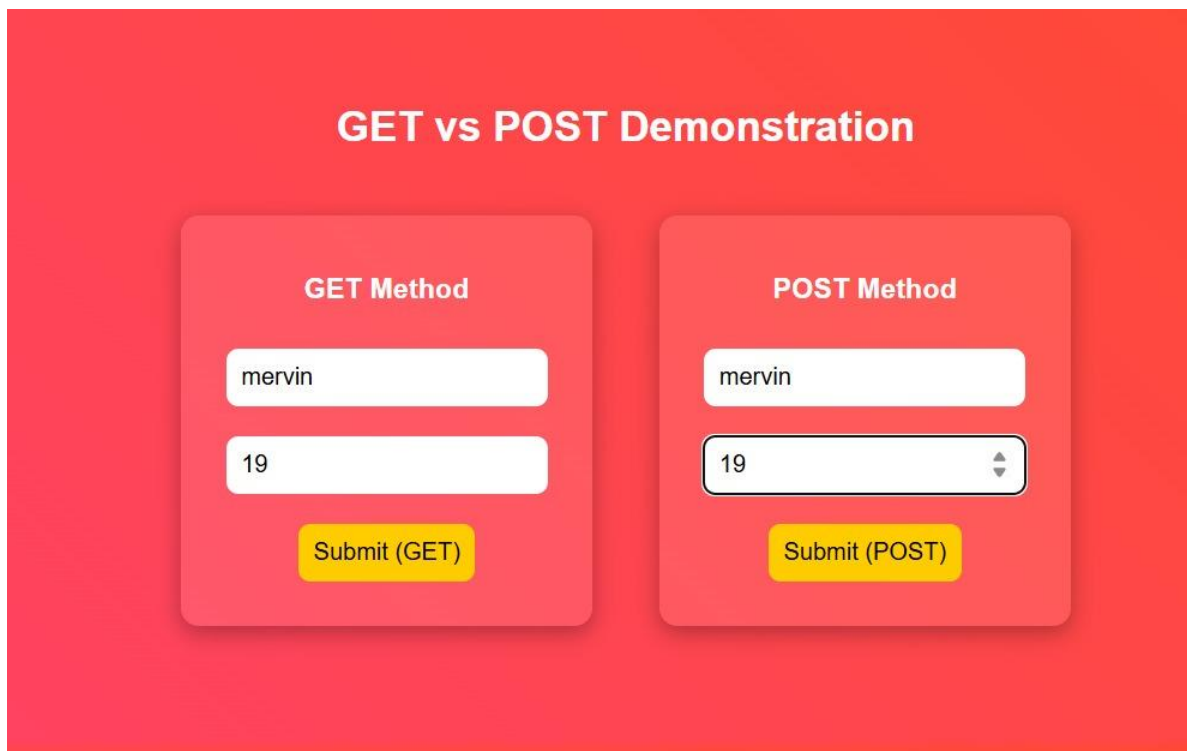
        out.println("<html><body>");
        out.println("<h2>POST Method Received</h2>");
        out.println("<p>Hello, <b>" + name + "</b>! Data sent using POST.</p>");
        out.println("</body></html>");
    }
}
```

## 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:



The image shows a web form titled "GET vs POST Demonstration" on a red background. It contains two side-by-side panels. The left panel, titled "GET Method", has two text input fields: the first contains "mervin" and the second contains "19". Below these is a yellow button labeled "Submit (GET)". The right panel, titled "POST Method", also has two input fields: the first contains "mervin" and the second is a dropdown menu currently showing "19". Below this is a yellow button labeled "Submit (POST)".

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