

# 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 🚀</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

css

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```
{
  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:**

The image shows a web application interface with two distinct sections, each with a title and a form. The first section is titled "Submit with GET" in red text. Below the title are two input fields: the first contains the text "Kishanthraja" and the second contains the number "18". Below these fields is a red button with the text "Submit (GET)". The second section is titled "Submit with POST" in red text. Below the title are two input fields: the first contains the text "Kishanthraja" and the second contains the number "18" followed by a downward arrow icon, indicating a dropdown menu. Below these fields is a red button with the text "Submit (POST)". The entire interface is set against a white background with a light orange border.

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

