

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 
```

```
        <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:

The screenshot displays a web application titled "GET vs POST Demonstration" on a red-to-orange gradient background. It features two distinct form sections. The top section, titled "GET Method", is enclosed in a light red rounded rectangle and contains two input fields: the first contains the text "LOKESH" and the second contains "19". Below these fields is a yellow button labeled "Submit (GET)". The bottom section, titled "POST Method", is also in a light red rounded rectangle and contains identical input fields with "LOKESH" and "19", followed by a yellow button labeled "Submit (POST)".

RESULT: The Get and Post methods were executed successfully.