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 2</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>
```

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</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;
}
          background:
button {
#36D1DC;
             color:
white; border: none;
padding: 10px 15px;
border-radius: 8px;
cursor: pointer;
transition: 0.3s;
}
button:hover {
  background: #1e6e8c; }
```

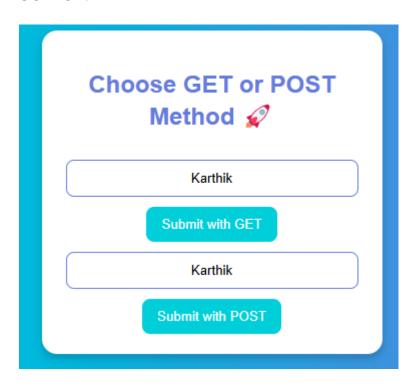
GetPostServlet.java (Servlet to Handle GET & POST) java

CopyEdit import java.io.IOException; import java.io.PrintWriter; import

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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 {
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("Hello, <b>" + name + "</b>! Data sent using GET.");
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("Hello, <b>" + name + "</b>! Data sent using POST.");
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></url-
  </servlet-mapping>
```

</web-app>

OUTPUT:



RESULT: The Get and Post methods were executed successfully.