

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:

GET vs POST Method Demo 🚀

Lovisha Karol

Submit with GET

Lovisha Karol

✓ GET Method Used

Name: Lovisha Karol

RESULT: The Get and Post methods were executed successfully.