# EX:NO:5 Write a Servlet to demonstrate the difference between HTTP GET and POST methods by creating a form and handling requests accordingly.

#### Aim:

To demonstrate the difference between the HTTP GET and POST methods using a Java Servlet, where a form will be created and requests will be handled accordingly by the GET and POST methods.

#### **Algorithm**

#### 1. Create an HTML Form:

- The form will have two buttons: one for sending a GET request and one for sending a POST request.
- o The form will also contain an input field for the user to enter some text.

#### 2. Handle GET Request:

- o In the servlet, when a **GET** request is received, retrieve the parameter sent via the **URL** (query string).
- o Display the received data on the webpage.

#### 3. Handle POST Request:

- In the servlet, when a **POST** request is received, retrieve the data sent in the request body.
- o Display the received data on the webpage.

#### 4. **Result:**

• The user will see different outputs depending on whether they submit the form using **GET** or **POST**.

#### CODE:

#### HTML:

```
<!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 Servlet</title>
<style>
body {
font-family: 'Arial', sans-serif;
```

```
background-color: #121212;
  color: #ffffff;
  text-align: center;
  margin: 0;
  padding: 0;
}
h2 {
  color: #00ffcc;
  margin-top: 40px;
  font-size: 26px;
}
.container {
  width: 50%;
  margin: auto;
  background: #222;
  padding: 30px;
  border-radius: 10px;
  box-shadow: 0px 0px 15px rgba(0, 255, 204, 0.5);
}
.form-container {
  margin-bottom: 25px;
  padding: 20px;
  background: #333;
  border-radius: 10px;
```

```
}
input[type="text"] {
  width: 90%;
  padding: 12px;
  margin: 10px 0;
  border: 2px solid #00ffcc;
  background: #222;
  color: #ffffff;
  border-radius: 5px;
  font-size: 16px;
}
button {
  background: #00ffcc;
  color: #121212;
  padding: 12px 18px;
  border: none;
  font-size: 16px;
  border-radius: 5px;
  cursor: pointer;
  transition: 0.3s;
}
button:hover {
  background: #00b38f;
  color: #fff;
```

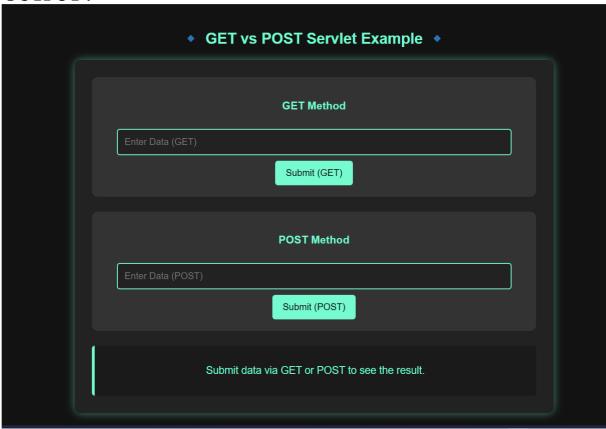
```
}
    .result {
      margin-top: 20px;
      padding: 15px;
      background: #1a1a1a;
      border-left: 5px solid #00ffcc;
      color: #00ffcc;
      font-size: 18px;
      border-radius: 5px;
    }
  </style>
</head>
<body>
  <h2> • GET vs POST Servlet Example • </h2>
  <div class="container">
    <!-- Form to demonstrate GET method -->
    <div class="form-container">
      <h3 style="color:#00ffcc;">GET Method</h3>
      <form action="DemoServlet" method="GET">
         <input type="text" name="data" placeholder="Enter Data (GET)" required>
         <button type="submit">Submit (GET)</button>
      </form>
    </div>
    <!-- Form to demonstrate POST method -->
```

```
<div class="form-container">
       <h3 style="color:#00ffcc;">POST Method</h3>
       <form action="DemoServlet" method="POST">
         <input type="text" name="data" placeholder="Enter Data (POST)" required>
         <button type="submit">Submit (POST)</button>
       </form>
     </div>
     <!-- Result Display Section -->
     <div class="result">
       Submit data via GET or POST to see the result.
     </div>
  </div>
</body>
</html>
Servlet.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("/DemoServlet")
public class DemoServlet extends HttpServlet {
  private static final long serialVersionUID = 1L;
  // Handle GET request
  protected void doGet(HttpServletRequest request, HttpServletResponse response) throws
ServletException, IOException {
    response.setContentType("text/html");
    PrintWriter out = response.getWriter();
    String data = request.getParameter("data");
    out.println("<html><body style='background-color:#121212; color:#00ffcc; text-
align:center;'>");
```

```
out.println("<h2>GET Request Received</h2>");
    if (data != null && !data.isEmpty()) {
       out.println("Data received via <strong>GET</strong>: " + data + "");
    } else {
       out.println("No data received in GET request.");
    out.println("<a href='index.html' style='color:#00ffcc;'>Go Back</a>");
    out.println("</body></html>");
  }
  // Handle POST request
  protected void doPost(HttpServletRequest request, HttpServletResponse response) throws
ServletException, IOException {
    response.setContentType("text/html");
    PrintWriter out = response.getWriter();
    String data = request.getParameter("data");
    out.println("<html><body style='background-color:#121212; color:#00ffcc; text-
align:center;'>");
    out.println("<h2>POST Request Received</h2>");
    if (data != null && !data.isEmpty()) {
       out.println("Data received via <strong>POST</strong>: " + data + "");
     } else {
       out.println("No data received in POST request.");
     }
    out.println("<a href='index.html' style='color:#00ffcc;'>Go Back</a>");
    out.println("</body></html>");
  }
}
```

#### web.xml:

#### **OUTPUT:**



## **GET Request Received**

Data received via GET method: 2023

## **POST Request Received**

Data received via POST method: 355

### **RESULT:**

Thus the give program is executed successfully.