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| *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>
```

```html
    <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
body {     font-family: 'Poppins', sans-serif;
background: linear-gradient(to right, #36D1DC, #5B86E5);
   text-align: center;
display: flex;
justifycontent: center;
alignitems: center;    height:

100vh;    margin: 0;
}
```

```css
.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;      borderradius:
8px;    text-align:
center;   }

button {      background:
#36D1DC;

   color:white;
border: none;
padding: 10px 15px;
border-radius: 8px;
cursor: pointer;
transition: 0.3s;

}
```

```css
button:hover {     background:
#1e6e8c;

}
```

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

```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>");

  }
```

```java
    // 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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```xml
<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>
```

The Get and Post methods were executed successfully.