

## 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 ✎</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

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```
{    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>");
} }
```

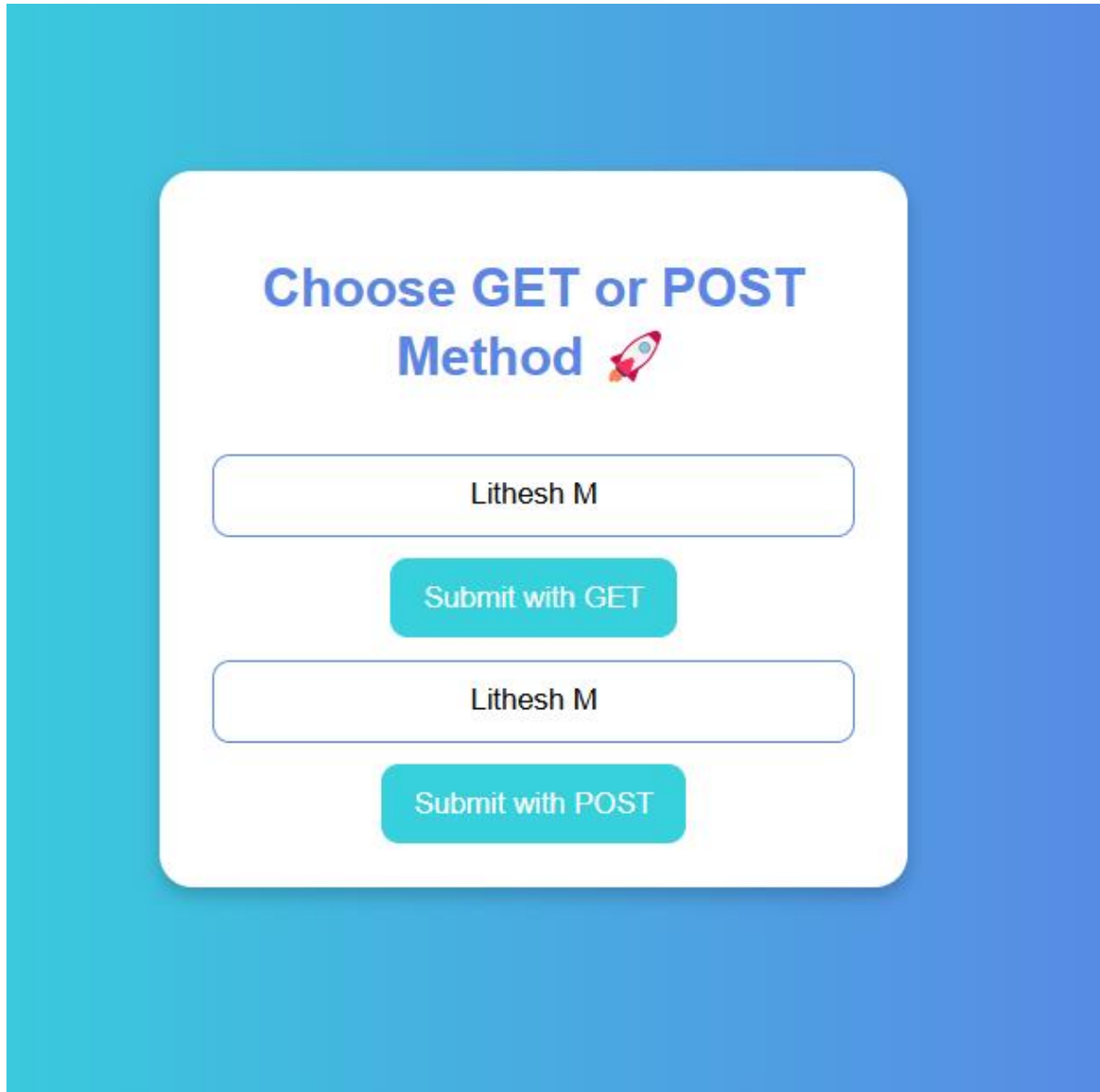
### **web.xml (Servlet Configuration) xml**

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```
<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 shows a web application with a blue gradient background. In the center is a white rounded rectangle containing the text "Choose GET or POST Method" in blue, followed by a rocket emoji. Below this are two identical forms. Each form has a white input field with a blue border containing the text "Lithesh M". Under each input field is a blue button with white text: "Submit with GET" for the top form and "Submit with POST" for the bottom form.

**RESULT:** The Get and Post methods were executed successfully.