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:

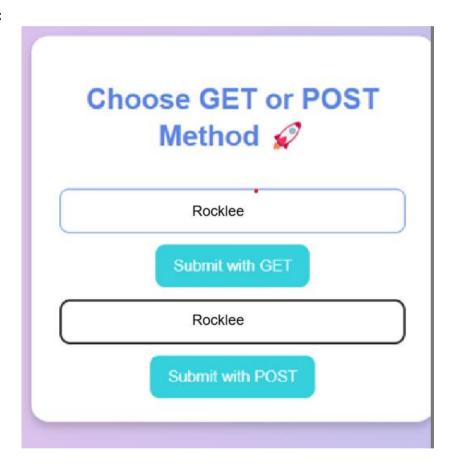
index.html (Form Page)

```
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 29</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
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;
}
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("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
```

OUTPUT:



RESULT: The Get and Post methods were executed successfully.