# **Experiment 1**

# 1. **Create an application to implement following method using Servlet.**

- doPost method and print message "Welcome to J2EE tutorial".

- doGet method and print message "Welcome to Servlet tutorial".

Firstly we have create **Dynamic Web Project,** Under the **“Dynamic Web Project”** create a two file one is **“html”** and second is **“servlet”** under the servlet file we have passed **“doPost method“** print "Welcome to J2EE tutorial",and under the **“doGet method”** print "Welcome to Servlet tutorial".

**HTML Form (index.html)**

<!**DOCTYPE** html>

<**html**>

<**head**>

<**title**>Experiment Servlet</**title**>

<**style**>

/\* Styling the body to make it centered and visually appealing \*/

body {

font-family: *Arial, sans-serif*; /\* Set a clean, readable font \*/

background-color: *#f4f4f9*; /\* Light gray background for contrast \*/

margin: *0*; /\* Remove default margins \*/

display: *flex*; /\* Use flexbox for centering content \*/

justify-content: *center*; /\* Center content horizontally \*/

align-items: *center*; /\* Center content vertically \*/

height: *100vh*; /\* Set full height of the viewport \*/

}

/\* Styling for the container box \*/

.form-container {

background: *white*; /\* White background for the container \*/

padding: *20px 30px*; /\* Add padding inside the container \*/

border-radius: *10px*; /\* Rounded corners for the container \*/

box-shadow: *0 4px 8px rgba(0, 0, 0, 0.1)*; /\* Subtle shadow for depth \*/

text-align: *center*; /\* Center the text inside the container \*/

width: *300px*; /\* Fixed width for the container \*/

}

/\* Styling for the heading inside the container \*/

.form-container h2 {

color: *#555*; /\* Dark gray text color for the heading \*/

margin-bottom: *20px*; /\* Add space below the heading \*/

}

/\* Styling for the forms inside the container \*/

.form-container form {

margin: *10px 0*; /\* Add space between the forms \*/

}

/\* Styling for the buttons \*/

.form-container button {

background-color: *#4CAF50*; /\* Green background color \*/

color: *white*; /\* White text color \*/

border: *none*; /\* Remove border \*/

padding: *10px 20px*; /\* Add padding for better appearance \*/

font-size: *16px*; /\* Set font size \*/

cursor: *pointer*; /\* Show pointer cursor on hover \*/

border-radius: *5px*; /\* Rounded corners for the buttons \*/

width: *100%*; /\* Make buttons stretch to the container's width \*/

transition: *background-color 0.3s ease, transform 0.3s ease*; /\* Add smooth transition effects \*/

}

/\* Hover effect for the buttons \*/

.form-container button:hover {

background-color: *#45a049*; /\* Slightly darker green on hover \*/

transform: *scale(1.05)*; /\* Slightly enlarge the button \*/

}

/\* Active effect for the buttons \*/

.form-container button:active {

background-color: *#3e8e41*; /\* Dark green on click \*/

}

</**style**>

</**head**>

<**body**>

<!-- Container to hold the form and buttons -->

<**div** class=*"form-container"*>

<!-- Heading inside the container -->

<**h2**>Click the buttons to make a request:</**h2**>

<!-- Form to send a POST request -->

<**form** action=*"Experiment"* method=*"post"*>

<**button** type=*"submit"*>Send POST Request</**button**>

</**form**>

<!-- Form to send a GET request -->

<**form** action=*"Experiment"* method=*"get"*>

<**button** type=*"submit"*>Send GET Request</**button**>

</**form**>

</**div**>

</**body**>

</**html**>

**Servlet Code (Experiment.java)**

import jakarta.servlet.ServletException;

import jakarta.servlet.annotation.WebServlet;

import jakarta.servlet.http.HttpServlet;

import jakarta.servlet.http.HttpServletRequest;

import jakarta.servlet.http.HttpServletResponse;

import java.io.IOException;

*@WebServlet*("/Experiment")

public class Experiment extends HttpServlet {

private static final long ***serialVersionUID*** = 1L;

public Experiment() {

super();

}

// Handles GET requests

protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {

// Setting the content type of the response to HTML

response.setContentType("text/html");

// Sending an HTML response to the client with a styled message

response.getWriter().println("<html><head><style>" + getCSS() + "</style></head><body>");

response.getWriter().println("<div class='form-container'>Welcome to Servlet tutorial</div>");

response.getWriter().println("</body></html>");

}

// Handles POST requests

protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {

// Setting the content type of the response to HTML

response.setContentType("text/html");

// Sending an HTML response to the client with a styled message

response.getWriter().println("<html><head><style>" + getCSS() + "</style></head><body>");

response.getWriter().println("<div class='form-container'>Welcome to J2EE tutorial</div>");

response.getWriter().println("</body></html>");

}

// Method to provide inline CSS for styling the response

private String getCSS() {

return """

body {

font-family: Arial, sans-serif;

background-color: #f4f4f9;

margin: 0;

display: flex;

justify-content: center;

align-items: center;

height: 100vh;

}

.form-container {

background: white;

color: #4CAF50;

padding: 20px 30px;

border-radius: 10px;

box-shadow: 0 4px 8px rgba(0, 0, 0, 0.1);

text-align: center;

font-size: 24px;

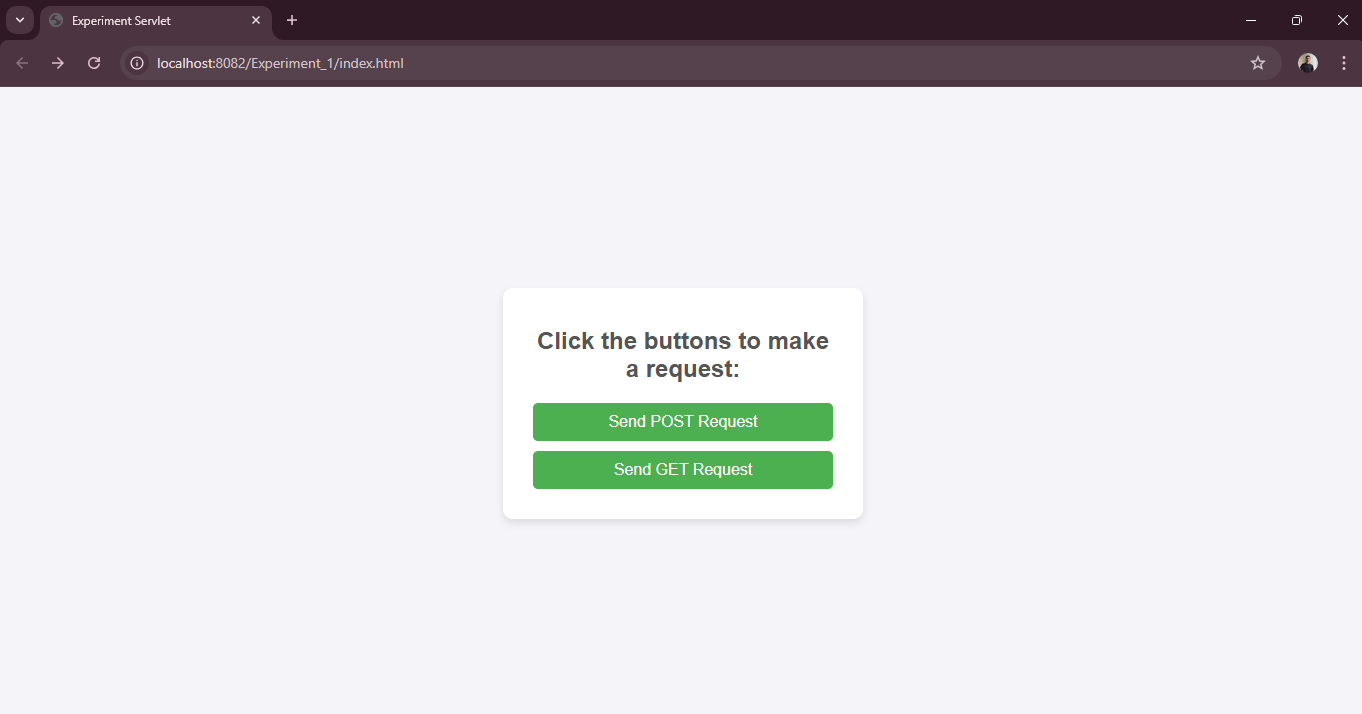
}

""";

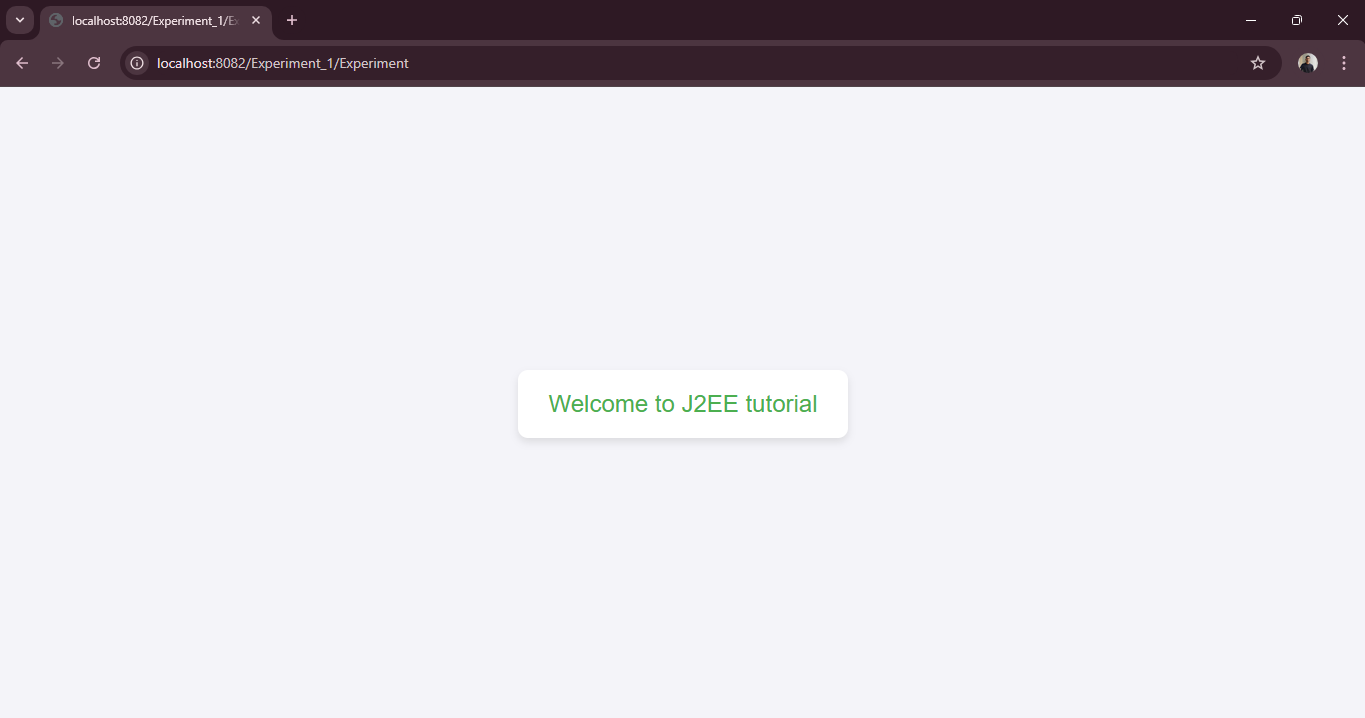
}

}

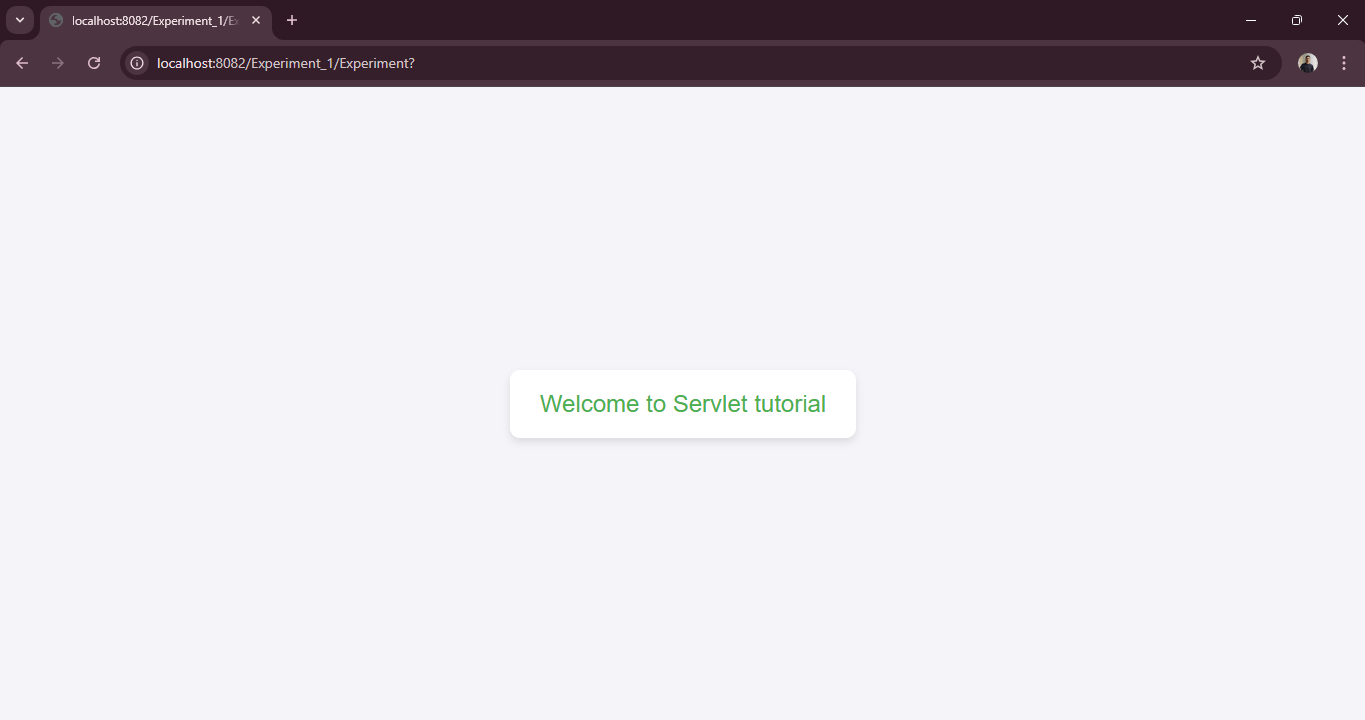
**OutPut:**



**When i tap Send POST Request it will show this Output:**



**When i tap Send GET Request it will show this Output:**

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