**REG NO. : 412422205009**

**NAME : AKASH RAJ L**

**SOURCE CODE :**

**index.html**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Shopping Cart</title>

</head>

<body>

<h2>Select Items to Add to Cart</h2>

<form method="get" action="CartServlet">

<label for="item">Item:</label>

<input type="text" id="item" name="item" required><br><br>

<input type="submit" value="Add to Cart">

</form>

<br>

<form method="get" action="ViewCartServlet">

<input type="submit" value="View Cart">

</form>

</body>

</html>

**CartServlet.java**

import java.io.IOException;

import java.util.ArrayList;

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 jakarta.servlet.http.HttpSession;

@WebServlet("/CartServlet")

public class CartServlet extends HttpServlet {

private static final long serialVersionUID = 1L;

protected void doGet(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

// Retrieve or create a session

HttpSession session = request.getSession();

// Get the item from the request

String item = request.getParameter("item");

// Retrieve the cart from the session, or create a new one if it doesn't exist

ArrayList<String> cart = (ArrayList<String>) session.getAttribute("cart");

if (cart == null) {

cart = new ArrayList<String>();

}

// Add the item to the cart

cart.add(item);

// Save the updated cart back to the session

session.setAttribute("cart", cart);

// Redirect to a confirmation page

response.sendRedirect("index.html");

}

}

**ViewCartServlet.java**

import java.io.IOException;

import java.io.PrintWriter;

import java.util.ArrayList;

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 jakarta.servlet.http.HttpSession;

@WebServlet("/ViewCartServlet")

public class ViewCartServlet extends HttpServlet {

private static final long serialVersionUID = 1L;

protected void doGet(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

// Set response content type

response.setContentType("text/html");

PrintWriter out = response.getWriter();

// Retrieve the session, if it exists

HttpSession session = request.getSession(false);

// Display the cart

out.println("<html><body>");

out.println("<h2>Your Shopping Cart:</h2>");

if (session != null) {

ArrayList<String> cart = (ArrayList<String>) session.getAttribute("cart");

if (cart != null && !cart.isEmpty()) {

for (String item : cart) {

out.println("<p>" + item + "</p>");

}} else {

out.println("<p>Your cart is empty.</p>");

}

} else {

out.println("<p>No session found.</p>");

}

out.println("<a href='index.html'>Go Back</a>");

out.println("</body></html>");

out.close();

}

}

**web.xml**

<?xml version="1.0" encoding="UTF-8"?>

<web-app version="6.0" xmlns="https://jakarta.ee/xml/ns/jakartaee" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="https://jakarta.ee/xml/ns/jakartaee https://jakarta.ee/xml/ns/jakartaee/web-app\_6\_0.xsd">

<servlet>

<servlet-name>CartServlet</servlet-name>

<servlet-class>CartServlet</servlet-class>

</servlet>

<servlet>

<servlet-name>ViewCartServlet</servlet-name>

<servlet-class>ViewCartServlet</servlet-class>

</servlet>

<servlet-mapping>

<servlet-name>CartServlet</servlet-name>

<url-pattern>/CartServlet</url-pattern>

</servlet-mapping>

<servlet-mapping>

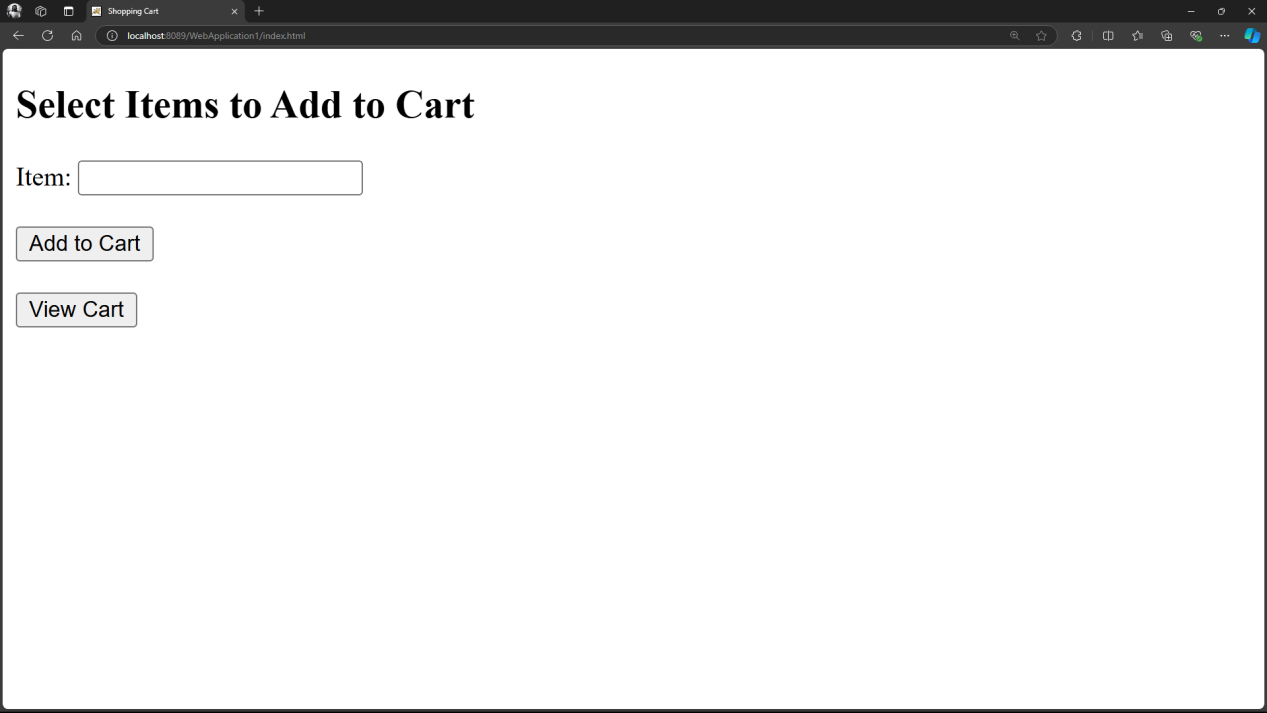
<servlet-name>ViewCartServlet</servlet-name>

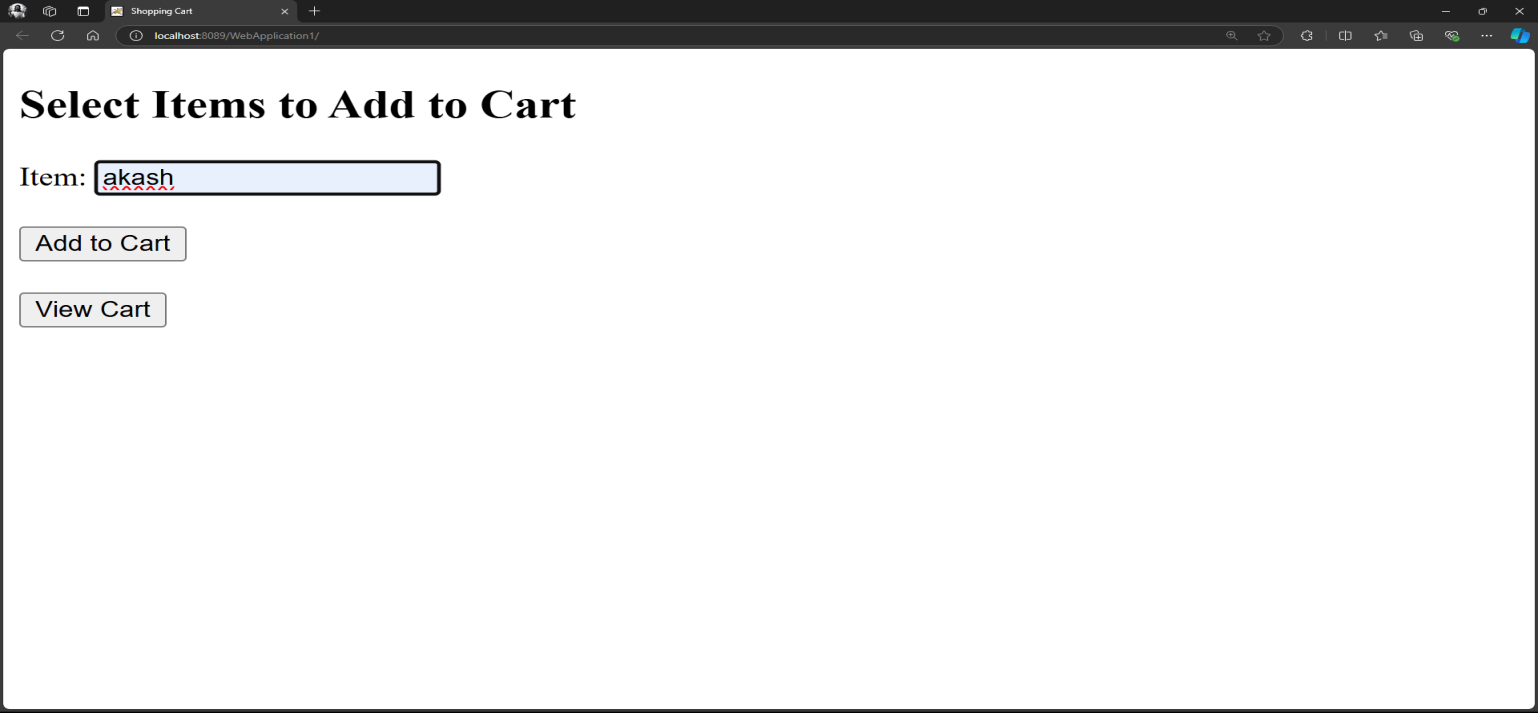
<url-pattern>/ViewCartServlet</url-pattern>

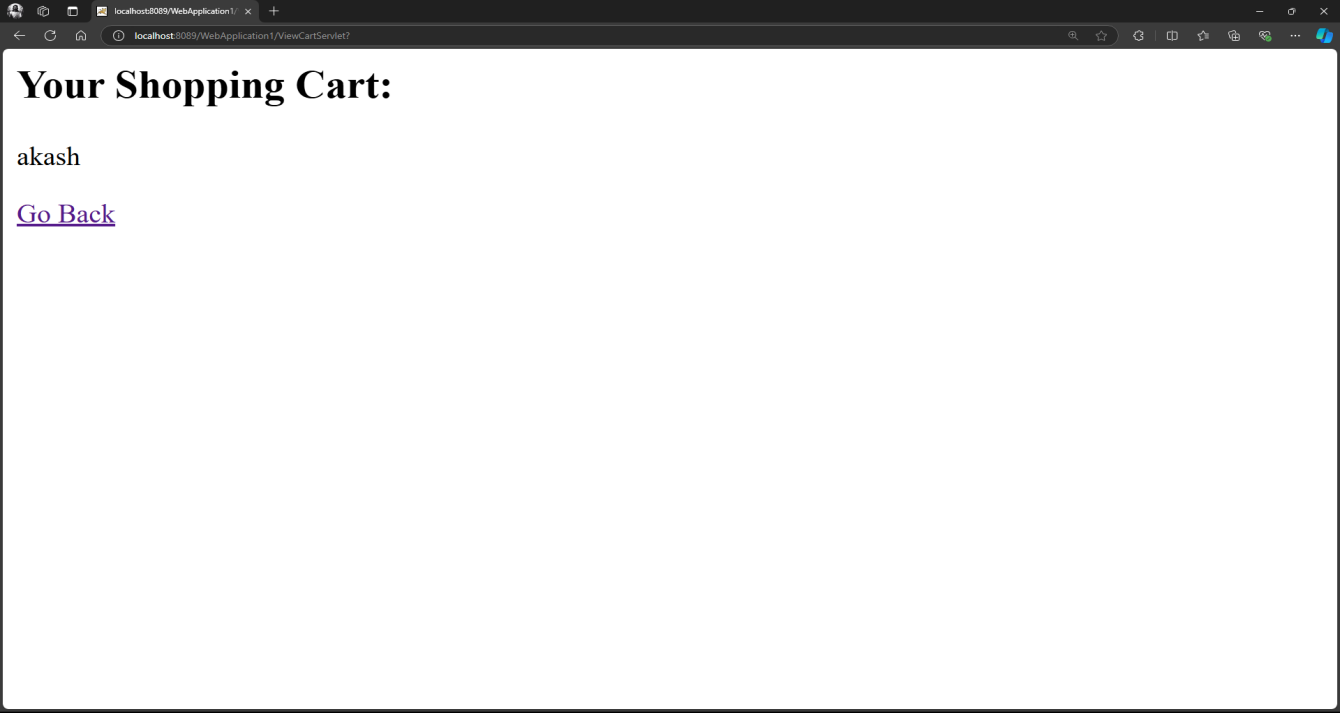
</servlet-mapping>

</web-app>

**OUTPUT :**

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