

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

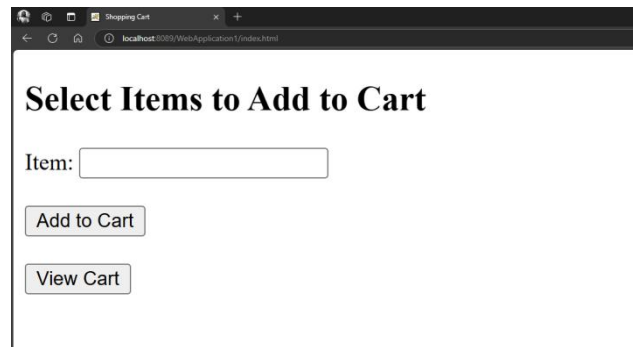
```

<?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">

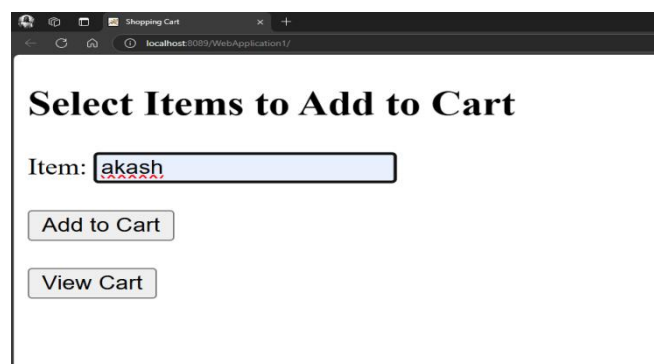
    <servlet>
        <servlet-name>CartServlet</servlet-name>
        <servlet-class>CartServlet</servlet-class>
    </servlet>
    <servlet>
        <servlet-name>ViewCartServlet</servlet-name>
        <servlet-class>ViewCartServlet</servlet-class>
    </servlet>
    <servlet-mapping>
        <servlet-name>CartServlet</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>

```

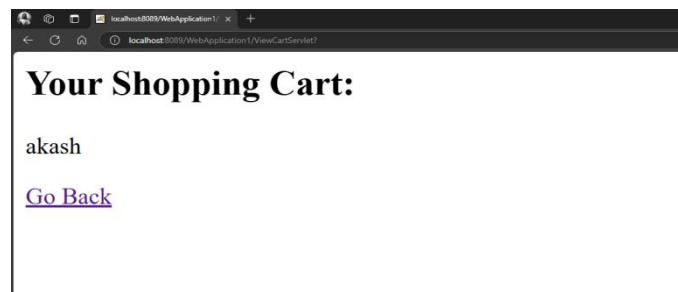
OUTPUT :



A screenshot of a web browser window titled 'Shopping Cart'. The address bar shows 'localhost:3039/WebApplication1/index.html'. The page has a heading 'Select Items to Add to Cart'. Below the heading is a label 'Item:' followed by an empty text input field. Underneath the input field are two buttons: 'Add to Cart' and 'View Cart'.



A screenshot of the same web browser window. The text 'akash' has been entered into the input field. The 'Add to Cart' and 'View Cart' buttons remain visible below the input field.



A screenshot of a web browser window showing the 'Your Shopping Cart:' page. The address bar shows 'localhost:3039/WebApplication1/ViewCartServlet?'. The page displays the text 'akash' and a purple underlined link labeled 'Go Back'.