

Add to cart application

Default.aspx

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="Default.aspx.cs"
Inherits="WebApplication6.Default" %>
<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
        <div>
            <asp:GridView ID="ProductGridView" runat="server" AutoGenerateColumns="False"
DataKeyNames="ProductID">
                <Columns>
                    <asp:BoundField DataField="ProductID" HeaderText="Product ID" />
                    <asp:BoundField DataField="ProductName" HeaderText="Product Name" />
                    <asp:BoundField DataField="Price" HeaderText="Price" />
                    <asp:TemplateField HeaderText="Action">
                        <ItemTemplate>
                            <asp:Button ID="AddToCartButton" runat="server" Text="Add to
Cart" OnClick="AddToCartButton_Click" />
                        </ItemTemplate>
                    </asp:TemplateField>
                </Columns>
            </asp:GridView>

            <h2>Shopping Cart</h2>
            <asp:ListView ID="CartListView" runat="server">
                <ItemTemplate>
                    <p><%# Eval("ProductName") %>, Price: $<%# Eval("Price") %>
                        <asp:Button ID="RemoveFromCartButton" runat="server"
Text="Remove" CommandName="RemoveFromCart" CommandArgument='<%# Eval("ProductID") %>'
OnClick="RemoveFromCartButton_Click" />
                    </p>
                </ItemTemplate>
            </asp:ListView>

            <asp:Label ID="LabelMessage" runat="server" Text=""></asp:Label>

        </div>
    </form>
</body>
</html>
```

Default.aspx.cs

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;

namespace WebApplication6
{
    public partial class Default : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {
            if (!IsPostBack)
            {
                ProductGridView.DataSource = ProductRepository.GetAllProducts();
                ProductGridView.DataBind();
            }
        }

        private ShoppingCart Cart
        {
            get
            {
                if (Session["Cart"] == null)
                {
                    Session["Cart"] = new ShoppingCart();
                }
                return (ShoppingCart)Session["Cart"];
            }
        }

        protected void AddToCartButton_Click(object sender, EventArgs e)
        {
            // Implement code to add items to the cart when the "Add to Cart" button is
            clicked.
            Button button = (Button)sender;
            GridViewRow row = (GridViewRow)button.NamingContainer;

            // Get the product ID from the GridView row
            int productId =
            Convert.ToInt32(ProductGridView.DataKeys[row.RowIndex]["ProductID"]);

            // Check if the product is already in the cart (you can modify this logic
            based on your needs)
            bool isProductInCart = Cart.ProductsInCart.Any(p => p.ProductID ==
            productId);

            if (isProductInCart)
            {
                // Handle the case where the product is already in the cart (e.g.,
                display a message)
                // You can also update the quantity or implement different behavior as
                needed.
            }
        }
    }
}
```

```

        // For simplicity, I'll just show a message here.
        LabelMessage.Text = "This product is already in the cart.";
    }
    else
    {
        // Fetch the product details from the data source (ProductRepository)
        Product product = ProductRepository.GetAllProducts().Find(p =>
p.ProductID == productId);

        // Add the selected product to the shopping cart
        Cart.ProductsInCart.Add(product);

        // Update the CartListView with the updated cart data
        CartListView.DataSource = Cart.ProductsInCart;
        CartListView.DataBind();
    }
}

protected void RemoveFromCartButton_Click(object sender, EventArgs e)
{
    // Implement code to remove items from the cart when the "Remove" button is
clicked.
    Button button = (Button)sender;
    ListViewItem item = (ListViewItem)button.NamingContainer;

    int productId =
Convert.ToInt32(CartListView.DataKeys[item.DataItemIndex].Value);

    ShoppingCart cart = Cart;
    Product productToRemove = cart.ProductsInCart.Find(p => p.ProductID ==
productId);

    if (productToRemove != null)
    {
        cart.ProductsInCart.Remove(productToRemove);
    }

    CartListView.DataSource = cart.ProductsInCart;
    CartListView.DataBind();
}
}
}

```

ProductRepository.cs

```

using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;

namespace WebApplication6
{
    public class ProductRepository
    {
        public static List<Product> GetAllProducts()
        {

```

```

        return new List<Product>
        {
            new Product { ProductID = 1, ProductName = "Product 1", Price = 10.99M },
            new Product { ProductID = 2, ProductName = "Product 2", Price = 19.99M },
            new Product { ProductID = 3, ProductName = "Product 3", Price = 5.99M }
        };
    }
}

public class Product
{
    public int ProductID { get; set; }
    public string ProductName { get; set; }
    public decimal Price { get; set; }
}
}

```

ShoppingCart.cs

```

using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;

namespace WebApplication6
{
    public class ShoppingCart
    {
        public List<Product> ProductsInCart { get; set; }

        public ShoppingCart()
        {
            ProductsInCart = new List<Product>();
        }
    }
}

```