

Sourcecode

Sourcecode for Pizza.cshtml:

```
@page
@model PizzaModel
@{
    ViewData["Title"] = "Pizza Selection";
}

<h1>@ViewData["Title"]</h1>

<form method="post" asp-page-handler="AddToCart">
    <label for="pizzaType">Select Pizza Type:</label>
    <select asp-for="SelectedPizza" asp-items="Model.PizzaTypes">
        <option value="">-- Select Pizza --</option>
    </select>

    <label for="quantity">Quantity:</label>
    <input type="number" asp-for="Quantity" min="1" required />

    <button type="submit">Add to Cart</button>
</form>
```

Sourcecode for Pizza.cshtml.cs:

```
using Microsoft.AspNetCore.Mvc;
using Microsoft.AspNetCore.Mvc.RazorPages;
using Microsoft.AspNetCore.Mvc.Rendering;

namespace PizzaOrderPrjt.Pages
{
    public class PizzaModel : PageModel
    {
        [BindProperty]
        public string SelectedPizza { get; set; }

        [BindProperty]
        public int Quantity { get; set; }

        public List<SelectListItem> PizzaTypes { get; } = new
List<SelectListItem>
        {
            new SelectListItem("Margherita", "Margherita"),
            new SelectListItem("Pepperoni", "Pepperoni"),
            new SelectListItem("Vegetarian", "Vegetarian"),
            // Add more pizza types as needed
        };

        public IActionResult OnPostAddToCart()
        {
            // Implement the logic to add the selected pizza to the shopping cart
            // You can store the selected pizza and quantity in a session
            variable or a database

            // Redirect to the Order Checkout page
            return RedirectToPage("OrderCheckout", new { pizza = SelectedPizza,
quantity = Quantity });
        }
    }
}
```

Sourcecode for OrderCheckout.cshtml:

```
@page
@model OrderCheckoutModel
@{
    ViewData["Title"] = "Order Checkout";
}

<h1>@ViewData["Title"]</h1>

<p>Pizza: @Model.SelectedPizza</p>
<p>Quantity: @Model.Quantity</p>
<p>Total Price: $@Model.TotalPrice</p>

<form method="post" asp-page-handler="PlaceOrder">
    <button type="submit">Checkout</button>
</form>
```

Sourcecode for OrderCheckout.cshtml.cs:

```
using Microsoft.AspNetCore.Mvc;
using Microsoft.AspNetCore.Mvc.RazorPages;

namespace PizzaOrderPrjt.Pages
{
    public class OrderCheckoutModel : PageModel
    {
        [BindProperty(SupportsGet = true)]
        public string SelectedPizza { get; set; }

        [BindProperty(SupportsGet = true)]
        public int Quantity { get; set; }

        public double TotalPrice => CalculateTotalPrice();

        public IActionResult OnPostPlaceOrder()
        {
            // Implement the logic to place the order
            // You can generate an order ID, store the order details in a
            database, etc.

            // Redirect to the Order Confirmation page
            return RedirectToPage("OrderConfirmation", new { orderId = 123,
amount = TotalPrice, pizza = SelectedPizza });
        }

        private double CalculateTotalPrice()
        {
            // Implement the logic to calculate the total price based on the
            selected pizza and quantity
            // This could involve querying a database for pizza prices or using a
            predefined price list

            // For simplicity, let's assume a fixed price per pizza
            double pizzaPrice = 10.0;
            return Quantity * pizzaPrice;
        }
    }
}
```

Sourcecode for OrderConfirmation.cshtml:

```
@page
@model OrderConfirmationModel
@{
    ViewData["Title"] = "Order Confirmation";
}

<h1>@ViewData["Title"]</h1>

<p>Thank you for your order!</p>
<p>Order ID: @Model.OrderId</p>
<p>Amount: $@Model.Amount</p>
<p>Selected Pizza: @Model.SelectedPizza</p>
```

Sourcecode for OrderConfirmation.cshtml.cs:

```
using Microsoft.AspNetCore.Mvc;
using Microsoft.AspNetCore.Mvc.RazorPages;

namespace PizzaOrderPrjt.Pages
{
    public class OrderConfirmationModel : PageModel
    {
        public int OrderId { get; set; }

        public double Amount { get; set; }

        public string SelectedPizza { get; set; }

        public void OnGet(int orderId, double amount, string pizza)
        {
            OrderId = orderId;
            Amount = amount;
            SelectedPizza = pizza;
        }
    }
}
```

Sourcecode for UnitTest1.cs:

```
using Microsoft.AspNetCore.Mvc;
using PizzaOrderPrjt.Pages;

namespace NUnitTestPrjt
{
    public class Tests
    {
        [TestFixture]
        public class PizzaOrderTests
        {
            [Test]
            public void PizzaSelectionPage_ShouldReturnPageResult()
            {
                // Arrange
                var pizzaPageModel = new PizzaModel();

                // Act
                var result = pizzaPageModel.OnPostAddToCart();

                // Assert
                Assert.IsInstanceOf<RedirectToPageResult>(result);
                var redirectResult = (RedirectToPageResult)result;
                Assert.AreEqual("OrderCheckout", redirectResult.PageName);
            }

            [Test]
            public void OrderCheckoutPage_ShouldReturnPageResult()
            {
                // Arrange
                var orderCheckoutModel = new OrderCheckoutModel
                {
                    SelectedPizza = "Pepperoni",
                    Quantity = 2
                };

                // Act
                var result = orderCheckoutModel.OnPostPlaceOrder();

                // Assert
                Assert.IsInstanceOf<RedirectToPageResult>(result);
                var redirectResult = (RedirectToPageResult)result;
                Assert.AreEqual("OrderConfirmation", redirectResult.PageName);
            }

            // Add more test methods as needed to cover different scenarios
        }
    }
}
```