

```

using System;
using System.Collections.Generic;
using System.Linq;
using System.Threading.Tasks;
using Microsoft.AspNetCore.Mvc;
using Microsoft.AspNetCore.Mvc.Rendering;
using Microsoft.EntityFrameworkCore;
using PhaseEnd2.Data;
using PhaseEnd2.Models;

namespace PhaseEnd2.Controllers
{
    public class ProductsController : Controller
    {
        private readonly PhaseEndDbContext _context;

        public ProductsController(PhaseEndDbContext context)
        {
            _context = context;
        }

        // GET: Products
        public async Task<IActionResult> Index()
        {
            return _context.Product != null ?
                View(await _context.Product.ToListAsync()) :
                Problem("Entity set 'PhaseEndDbContext.Product' is
null.");
        }

        // GET: Products/Details/5
        public async Task<IActionResult> Details(int? id)
        {
            if (id == null || _context.Product == null)
            {
                return NotFound();
            }

            var product = await _context.Product
                .FirstOrDefaultAsync(m => m.ProductID == id);
            if (product == null)
            {
                return NotFound();
            }

            return View(product);
        }

        // GET: Products/Create
        public IActionResult Create()
        {
            return View();
        }

        // POST: Products/Create
        // To protect from overposting attacks, enable the specific properties you
        want to bind to.
        // For more details, see http://go.microsoft.com/fwlink/?LinkId=317598.

```

```

[HttpPost]
[ValidateAntiForgeryToken]
public async Task<IActionResult>
Create([Bind("ProductID,Name,UnitPrice,UnitInStock,ProductAvailable,ShortDescription
,PicturePath,Note")] Product product)
{
    if (ModelState.IsValid)
    {
        _context.Add(product);
        await _context.SaveChangesAsync();
        return RedirectToAction(nameof(Index));
    }
    return View(product);
}

// GET: Products/Edit/5
public async Task<IActionResult> Edit(int? id)
{
    if (id == null || _context.Product == null)
    {
        return NotFound();
    }

    var product = await _context.Product.FindAsync(id);
    if (product == null)
    {
        return NotFound();
    }
    return View(product);
}

// POST: Products/Edit/5
// To protect from overposting attacks, enable the specific properties you
want to bind to.
// For more details, see http://go.microsoft.com/fwlink/?LinkId=317598.
[HttpPost]
[ValidateAntiForgeryToken]
public async Task<IActionResult> Edit(int id,
[Bind("ProductID,Name,UnitPrice,UnitInStock,ProductAvailable,ShortDescription,Pictur
ePath,Note")] Product product)
{
    if (id != product.ProductID)
    {
        return NotFound();
    }

    if (ModelState.IsValid)
    {
        try
        {
            _context.Update(product);
            await _context.SaveChangesAsync();
        }
        catch (DbUpdateConcurrencyException)
        {
            if (!ProductExists(product.ProductID))
            {
                return NotFound();
            }
        }
    }
}

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        }
        else
        {
            throw;
        }
    }
    return RedirectToAction(nameof(Index));
}
return View(product);
}

// GET: Products/Delete/5
public async Task<IActionResult> Delete(int? id)
{
    if (id == null || _context.Product == null)
    {
        return NotFound();
    }

    var product = await _context.Product
        .FirstOrDefaultAsync(m => m.ProductID == id);
    if (product == null)
    {
        return NotFound();
    }

    return View(product);
}

// POST: Products/Delete/5
[HttpPost, ActionName("Delete")]
[ValidateAntiForgeryToken]
public async Task<IActionResult> DeleteConfirmed(int id)
{
    if (_context.Product == null)
    {
        return Problem("Entity set 'PhaseEndDbContext.Product' is null.");
    }
    var product = await _context.Product.FindAsync(id);
    if (product != null)
    {
        _context.Product.Remove(product);
    }

    await _context.SaveChangesAsync();
    return RedirectToAction(nameof(Index));
}

private bool ProductExists(int id)
{
    return (_context.Product?.Any(e => e.ProductID ==
id)).GetValueOrDefault();
}
}
}

```

```
using System;
```

```

using System.Collections.Generic;
using System.Linq;
using System.Threading.Tasks;
using Microsoft.AspNetCore.Mvc;
using Microsoft.AspNetCore.Mvc.Rendering;
using Microsoft.EntityFrameworkCore;
using PhaseEnd2.Data;
using PhaseEnd2.Models;

namespace PhaseEnd2.Controllers
{
    public class OrdersController : Controller
    {
        private readonly PhaseEndDbContext _context;

        public OrdersController(PhaseEndDbContext context)
        {
            _context = context;
        }

        // GET: Orders
        public async Task<IActionResult> Index()
        {
            return _context.Order != null ?
                View(await _context.Order.ToListAsync()) :
                Problem("Entity set 'PhaseEndDbContext.Order' is null.");
        }

        // GET: Orders/Details/5
        public async Task<IActionResult> Details(int? id)
        {
            if (id == null || _context.Order == null)
            {
                return NotFound();
            }

            var order = await _context.Order
                .FirstOrDefaultAsync(m => m.OrderID == id);
            if (order == null)
            {
                return NotFound();
            }

            return View(order);
        }

        // GET: Orders/Create
        public IActionResult Create()
        {
            return View();
        }

        // POST: Orders/Create
        // To protect from overposting attacks, enable the specific properties you
        want to bind to.
        // For more details, see http://go.microsoft.com/fwlink/?LinkId=317598.
        [HttpPost]
        [ValidateAntiForgeryToken]

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        public async Task<IActionResult>
Create([Bind("OrderID, CustomerID, PaymentID, ShippingID, Discount, Taxes, TotalAmount, isC
ompleted, OrderDate, DIspatched, DispatchedDate, Shipped, ShippingDate, Deliver, DeliveryDa
te, Notes, CancelOrder")] Order order)
    {
        if (ModelState.IsValid)
        {
            _context.Add(order);
            await _context.SaveChangesAsync();
            return RedirectToAction(nameof(Index));
        }
        return View(order);
    }

    // GET: Orders/Edit/5
    public async Task<IActionResult> Edit(int? id)
    {
        if (id == null || _context.Order == null)
        {
            return NotFound();
        }

        var order = await _context.Order.FindAsync(id);
        if (order == null)
        {
            return NotFound();
        }
        return View(order);
    }

    // POST: Orders/Edit/5
    // To protect from overposting attacks, enable the specific properties you
want to bind to.
    // For more details, see http://go.microsoft.com/fwlink/?LinkId=317598.
    [HttpPost]
    [ValidateAntiForgeryToken]
    public async Task<IActionResult> Edit(int id,
[Bind("OrderID, CustomerID, PaymentID, ShippingID, Discount, Taxes, TotalAmount, isComplete
d, OrderDate, DIspatched, DispatchedDate, Shipped, ShippingDate, Deliver, DeliveryDate, Note
s, CancelOrder")] Order order)
    {
        if (id != order.OrderID)
        {
            return NotFound();
        }

        if (ModelState.IsValid)
        {
            try
            {
                _context.Update(order);
                await _context.SaveChangesAsync();
            }
            catch (DbUpdateConcurrencyException)
            {
                if (!OrderExists(order.OrderID))
                {
                    return NotFound();
                }
            }
        }
    }

```

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        }
        else
        {
            throw;
        }
    }
    return RedirectToAction(nameof(Index));
}
return View(order);
}

// GET: Orders/Delete/5
public async Task<IActionResult> Delete(int? id)
{
    if (id == null || _context.Order == null)
    {
        return NotFound();
    }

    var order = await _context.Order
        .FirstOrDefaultAsync(m => m.OrderID == id);
    if (order == null)
    {
        return NotFound();
    }

    return View(order);
}

// POST: Orders/Delete/5
[HttpPost, ActionName("Delete")]
[ValidateAntiForgeryToken]
public async Task<IActionResult> DeleteConfirmed(int id)
{
    if (_context.Order == null)
    {
        return Problem("Entity set 'PhaseEndDbContext.Order' is null.");
    }
    var order = await _context.Order.FindAsync(id);
    if (order != null)
    {
        _context.Order.Remove(order);
    }

    await _context.SaveChangesAsync();
    return RedirectToAction(nameof(Index));
}

private bool OrderExists(int id)
{
    return (_context.Order?.Any(e => e.OrderID == id)).GetValueOrDefault();
}
}
}

```

```

using System;
using System.Collections.Generic;
using System.Linq;
using System.Threading.Tasks;
using Microsoft.AspNetCore.Mvc;
using Microsoft.AspNetCore.Mvc.Rendering;
using Microsoft.EntityFrameworkCore;
using PhaseEnd2.Data;
using PhaseEnd2.Models;

namespace PhaseEnd2.Controllers
{
    public class OrderDetailsController : Controller
    {
        private readonly PhaseEndDbContext _context;

        public OrderDetailsController(PhaseEndDbContext context)
        {
            _context = context;
        }

        // GET: OrderDetails
        public async Task<IActionResult> Index()
        {
            var phaseEndDbContext = _context.OrderDetail.Include(o =>
o.Order).Include(o => o.Product);
            return View(await phaseEndDbContext.ToListAsync());
        }

        // GET: OrderDetails/Details/5
        public async Task<IActionResult> Details(int? id)
        {
            if (id == null || _context.OrderDetail == null)
            {
                return NotFound();
            }

            var orderDetail = await _context.OrderDetail
                .Include(o => o.Order)
                .Include(o => o.Product)
                .FirstOrDefaultAsync(m => m.OrderDetailsID == id);
            if (orderDetail == null)
            {
                return NotFound();
            }

            return View(orderDetail);
        }

        // GET: OrderDetails/Create
        public IActionResult Create()
        {
            ViewData["OrderID"] = new SelectList(_context.Order, "OrderID",
"OrderID");
            ViewData["ProductID"] = new SelectList(_context.Set<Product>(),
"ProductID", "ProductID");
            return View();
        }
    }
}

```

```

        // POST: OrderDetails/Create
        // To protect from overposting attacks, enable the specific properties you
want to bind to.
        // For more details, see http://go.microsoft.com/fwlink/?LinkId=317598.
        [HttpPost]
        [ValidateAntiForgeryToken]
        public async Task<IActionResult>
Create([Bind("OrderDetailsID,OrderID,ProductID,UnitPrice,Quantity,OrderDate")]
OrderDetail orderDetail)
        {
            if (ModelState.IsValid)
            {
                _context.Add(orderDetail);
                await _context.SaveChangesAsync();
                return RedirectToAction(nameof(Index));
            }
            ViewData["OrderID"] = new SelectList(_context.Order, "OrderID",
"OrderID", orderDetail.OrderID);
            ViewData["ProductID"] = new SelectList(_context.Set<Product>(),
"ProductID", "ProductID", orderDetail.ProductID);
            return View(orderDetail);
        }

        // GET: OrderDetails/Edit/5
        public async Task<IActionResult> Edit(int? id)
        {
            if (id == null || _context.OrderDetail == null)
            {
                return NotFound();
            }

            var orderDetail = await _context.OrderDetail.FindAsync(id);
            if (orderDetail == null)
            {
                return NotFound();
            }
            ViewData["OrderID"] = new SelectList(_context.Order, "OrderID",
"OrderID", orderDetail.OrderID);
            ViewData["ProductID"] = new SelectList(_context.Set<Product>(),
"ProductID", "ProductID", orderDetail.ProductID);
            return View(orderDetail);
        }

        // POST: OrderDetails/Edit/5
        // To protect from overposting attacks, enable the specific properties you
want to bind to.
        // For more details, see http://go.microsoft.com/fwlink/?LinkId=317598.
        [HttpPost]
        [ValidateAntiForgeryToken]
        public async Task<IActionResult> Edit(int id,
[Bind("OrderDetailsID,OrderID,ProductID,UnitPrice,Quantity,OrderDate")] OrderDetail
orderDetail)
        {
            if (id != orderDetail.OrderDetailsID)
            {
                return NotFound();
            }

```



```

        if (ModelState.IsValid)
        {
            try
            {
                _context.Update(orderDetail);
                await _context.SaveChangesAsync();
            }
            catch (DbUpdateConcurrencyException)
            {
                if (!OrderDetailExists(orderDetail.OrderDetailsID))
                {
                    return NotFound();
                }
                else
                {
                    throw;
                }
            }
            return RedirectToAction(nameof(Index));
        }
        ViewData["OrderID"] = new SelectList(_context.Order, "OrderID",
"OrderID", orderDetail.OrderID);
        ViewData["ProductID"] = new SelectList(_context.Set<Product>(),
"ProductID", "ProductID", orderDetail.ProductID);
        return View(orderDetail);
    }

    // GET: OrderDetails/Delete/5
    public async Task<IActionResult> Delete(int? id)
    {
        if (id == null || _context.OrderDetail == null)
        {
            return NotFound();
        }

        var orderDetail = await _context.OrderDetail
            .Include(o => o.Order)
            .Include(o => o.Product)
            .FirstOrDefaultAsync(m => m.OrderDetailsID == id);
        if (orderDetail == null)
        {
            return NotFound();
        }

        return View(orderDetail);
    }

    // POST: OrderDetails/Delete/5
    [HttpPost, ActionName("Delete")]
    [ValidateAntiForgeryToken]
    public async Task<IActionResult> DeleteConfirmed(int id)
    {
        if (_context.OrderDetail == null)
        {
            return Problem("Entity set 'PhaseEndDbContext.OrderDetail' is
null.");
        }
    }

```

```

        var orderDetail = await _context.OrderDetail.FindAsync(id);
        if (orderDetail != null)
        {
            _context.OrderDetail.Remove(orderDetail);
        }

        await _context.SaveChangesAsync();
        return RedirectToAction(nameof(Index));
    }

    private bool OrderDetailExists(int id)
    {
        return (_context.OrderDetail?.Any(e => e.OrderDetailsID ==
id)).GetValueOrDefault();
    }
}

```

```

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

```

```

namespace PhaseEnd2.Models
{
    public class Product
    {
        public Product()
        {
            this.OrderDetails = new HashSet<OrderDetail>();
        }
        [Key]
        public int ProductID { get; set; }
        [Display(Name = "Product Name")]
        public string Name { get; set; }
        [Display(Name = "Supplier")]

        public decimal UnitPrice { get; set; }
        [Display(Name = "Previous Price")]

        public Nullable<int> UnitInStock { get; set; }
        [Display(Name = "Available?")]
        public Nullable<bool> ProductAvailable { get; set; }
        [Display(Name = "Description")]
        public string ShortDescription { get; set; }
        [Display(Name = "Picture")]
        public string PicturePath { get; set; }
        public string Note { get; set; }
    }
}

```

```

        public virtual ICollection<OrderDetail> OrderDetails { get; set; }
    }
}

```

```

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

```

```

namespace PhaseEnd2.Models

```

```

{
    public class OrderDetail
    {
        [Key]
        public int OrderDetailsID { get; set; }
        public int OrderID { get; set; }
        public int ProductID { get; set; }
        public Nullable<decimal> UnitPrice { get; set; }
        public Nullable<int> Quantity { get; set; }
        public Nullable<System.DateTime> OrderDate { get; set; }

        public virtual Order Order { get; set; }
        public virtual Product Product { get; set; }
    }
}

```

```

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

```

```

namespace PhaseEnd2.Models

```

```

{
    public class Order
    {
        public Order()
        {
            this.OrderDetails = new HashSet<OrderDetail>();
        }

        [Key]
        public int OrderID { get; set; }
        public int CustomerID { get; set; }
        public Nullable<int> PaymentID { get; set; }
        public Nullable<int> ShippingID { get; set; }
        public Nullable<int> Discount { get; set; }
        public Nullable<int> Taxes { get; set; }
        public Nullable<int> TotalAmount { get; set; }
        public Nullable<bool> isCompleted { get; set; }
        public Nullable<System.DateTime> OrderDate { get; set; }
        public Nullable<bool> DIspatched { get; set; }
        public Nullable<System.DateTime> DispatchedDate { get; set; }
        public Nullable<bool> Shipped { get; set; }
    }
}

```

```

        public Nullable<System.DateTime> ShippingDate { get; set; }
        public Nullable<bool> Deliver { get; set; }
        public Nullable<System.DateTime> DeliveryDate { get; set; }
        public string Notes { get; set; }
        public Nullable<bool> CancelOrder { get; set; }

        public virtual ICollection<OrderDetail> OrderDetails { get; set; }
    }
}

```

```

{
    "Logging": {
        "LogLevel": {
            "Default": "Information",
            "Microsoft.AspNetCore": "Warning"
        }
    },
    "AllowedHosts": "*",
    "ConnectionStrings": {
        "PhaseEndDbContext": "Server=DESKTOP-
MFQ8M0P;Database=PhaseEnd2.Data;Trusted_Connection=True;MultipleActiveResultSets=true;TrustServerCertificate=True;"
    }
}

```