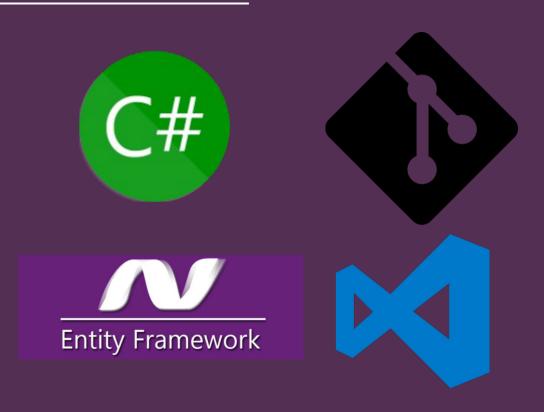
SugarRush A Sweet Web Shop

Presented By

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Technologies & Tools

- C# Programming Language
- Visual Studio Code
- .NET Core
- ASP.NET Core
- Entity Framework Core
- SQLite
- SASS
- Git



Documentation

```
/// </summary>
/// </param name="userId">The user id to query.</param>
IEnumerable<Tuple<Order, int>> IOrder.GetSubmittedOrders(Guid userId)
    return context.Orders
         .Where(o => o.User.UserId == userId)
         .Where(o => o.TimeSubmitted != null)
         .Select(o =
             new Tuple<Order, int>(
                 o.OrderLineItems
                      .Where(li => li.Order.OrderId == o.OrderId)
                      .Sum(li => li.Quantity)
         .AsEnumerable();
/// <param name="userId">The user id of the order.</param>
/// <param name="orderId">The order id to query.</param
/// <returns>IEnumerable of OrderLineItem.</returns>
IEnumerable<OrderLineItem> IOrder.GetOrderLines(Guid userId, Guid orderId)
     return _context.OrderLineItems
         .Include(ol => ol.Product)
         .Where(ol => ol.Order.OrderId == orderId)
         .Where(ol => ol.Order.User.UserId == userId)
         .Select(ol => ol)
         .OrderBy(ol => ol.Product.Name)
         .AsEnumerable();
```

```
window.addEventListener("load", function() {
    function highlight(text, arrayOfSubstrToHighlight, classToApply) {
       let container = document.createElement("span");
       let highlightIndices = [];
        for (let i = 0; i < text.length; i++) {
            highlightIndices.push(false);
        for (let i = 0; i < arrayOfSubstrToHighlight.length; i++) {</pre>
            let substr = arrayOfSubstrToHighlight[i];
            let matchIndex = text.toLowerCase().indexOf(substr);
            if (matchIndex != -1) {
                for (let c = matchIndex: c < matchIndex + substr.length: c++) {</pre>
                    highlightIndices[c] = true;
```

Testing

```
jaysonLennon-repo1/Project1 on  master [$!] took 3s
) just test
cd Tests && dotnet test
TestOrderRepository.cs(476,27): warning xUnit1013: Public
Test run for /home/jayson/data/dev/revature/jaysonLennon-r
Microsoft (R) Test Execution Command Line Tool Version 16.
Copyright (c) Microsoft Corporation. All rights reserved.
Starting test execution, please wait...
A total of 1 test files matched the specified pattern.
Test Run Successful.
Total tests: 23
    Passed: 23
Total time: 3.0987 Seconds
```

```
0 references | Run Test | Debug Test
public async void RejectsOrderWhenOutOfStock()
public async void RejectsEmptyOrders()
[Fact]
[Fact]
public void GetsSubmittedOrders()
[Fact]
public void GetsOrderLines()
public void RejectsOrderLinesWithBadIds()
[Fact]
public async void SetsLineItemQuantity()
public async void RejectsLineItemAdjustmentWhenItExceedsStock()
public async void RejectsLineItemAdjustmentWithBadIds()
public async void AddsLineItem()
[Fact]
public async void RejectsNewLineItemWhenItExceedsStock()
```

MVC

- Using MVC pattern in ASP.NET Core
- Strongly-typed views with view models
- View logic limited:
 - Login status
 - Special messages (errors, empty data)

Data

- Data access using repository pattern
 - Repositories implemented using interfaces
- Database is in 3NF
 - Built using EFCore code-first

```
namespace StoreApp.Data
      lic class StoreContext : DbContext
       public DbSet<Entity.Product> Products { get; set; }
       public DbSet<Entity.User> Users { get: set: }
       public DbSet<Entity.Location> Locations { get; set; }
        ublic DbSet<Entity.LocationInventory> LocationInventories { get: set: }
       public DbSet<Entity.Order> Orders { get; set; }
       public DbSet<Entity.OrderLineItem> OrderLineItems { get; set; }
       public DbSet<Entity.Address> Addresses { get; set; }
       public DbSet<Entity.AddressLine1> AddressLine1s { get; set; }
       public DbSet<Entity.AddressLine2> AddressLine2s { get; set; }
```

Implementation Details

- Exception handling
- CSRF prevention
- Logging
- No public fields
- Dependency injection
- Loose coupling of repositories, entities, domain models, and business logic

```
int inStock;
try
{
    inStock = await _context.LocationInventories
    .Where(li => li.Product.ProductId == lineItem.Product.ProductId)
    .Where(li => li.Location.LocationId == order.Location.LocationId)
    .SumAsync(li => li.Quantity);
}
catch (NullReferenceException)
{
    return SetLineItemQuantityResult.ProductMissing;
}
if (lineItem == null) return SetLineItemQuantityResult.ProductMissing;
```

```
case StoreApp.Repository.PlaceOrderResult.OutOfStock:
{
    this._logger.LogWarning($"An order failed to be submitted due to insuffic this.SetFlashError("Unable to place order: Some items are out of stock.")
    return RedirectToAction("PlaceOrderError", "Checkout");
}
case StoreApp.Repository.PlaceOrderResult.NoLineItems:
{
    this._logger.LogWarning($"An order failed to be submitted due to not havi this.SetFlashError("Unable to place order: There are no items in your orc return RedirectToAction("PlaceOrderError", "Checkout");
}
case StoreApp.Repository.PlaceOrderResult.OrderNotFound:

    this._logger.LogCritical($"An order failed to be submitted due to missing this.SetFlashError("Unable to place order: No order was found.");
    return RedirectToAction("PlaceOrderError", "Checkout");
```

Demo

```
jaysonLennon-repol/Project1 on !/ master [$!]
} dotnet run
```

Questions?

```
SELECT Answer FROM Batch
WHERE Member = 'Jayson';
```