1 - Abra o Packege Manager Console, Troque o Default project para Discount.API, e vamos instalar o postgre Sql dentro da aplicação.

\* Install-Package Npgsql

\* Install-Package Dapper

\* Update-Package -ProjectName Discount.API

2- Dentro de Discount.API crie a pasta Repositories e dentro dela as classes e Interfaces de contrato

\* public interface IDiscountRepository

Task<Coupon> GetDiscount(string productName);

Task<bool> CreateDiscount(Coupon coupon);

Task<bool> UpdateDiscount(Coupon coupon);

ask<bool> DeleteDiscount(string productName);

2.1 - Crie a classe DiscountRepository e faça a implementação dos contratos descritos po la Interface acima

\* DiscountRepository : IDiscountRepository

private readonly IConfiguration \_configuration;

public DiscountRepository(IConfiguration configuration)

{

\_configuration = configuration ?? throw new ArgumentNullException(nameof(configuration));

}

public async Task<Coupon> GetDiscount(string productName)

{

using var connection = new NpgsqlConnection

(\_configuration.GetValue<string>("DatabaseSettings:ConnectionString"));

var coupon = await connection.QueryFirstOrDefaultAsync<Coupon>

("SELECT \* FROM Coupon WHERE ProductName = @ProductName", new { ProductName = productName });

if (coupon == null)

return new Coupon

{ ProductName = "No Discount", Amount = 0, Description = "No Discount Desc" };

return coupon;

}

public async Task<bool> CreateDiscount(Coupon coupon)

{

using var connection = new NpgsqlConnection

(\_configuration.GetValue<string>("DatabaseSettings:ConnectionString"));

var affected =

await connection.ExecuteAsync

("INSERT INTO Coupon (ProductName, Description, Amount) VALUES (@ProductName, @Description, @Amount)",

new { ProductName = coupon.ProductName, Description = coupon.Description, Amount = coupon.Amount });

if (affected == 0)

return false;

return true;

}

public async Task<bool> UpdateDiscount(Coupon coupon)

{

using var connection = new NpgsqlConnection(\_configuration.GetValue<string>("DatabaseSettings:ConnectionString"));

var affected = await connection.ExecuteAsync

("UPDATE Coupon SET ProductName=@ProductName, Description = @Description, Amount = @Amount WHERE Id = @Id",

new { ProductName = coupon.ProductName, Description = coupon.Description, Amount = coupon.Amount, Id = coupon.Id });

if (affected == 0)

return false;

return true;

}

public async Task<bool> DeleteDiscount(string productName)

{

using var connection = new NpgsqlConnection(\_configuration.GetValue<string>("DatabaseSettings:ConnectionString"));

var affected = await connection.ExecuteAsync("DELETE FROM Coupon WHERE ProductName = @ProductName",

new { ProductName = productName });

if (affected == 0)

return false;

return true;

}

3 - Abra o appsettings.json e faça a connectionString do novo banco instalado, a cima da existente.

"DatabaseSettings": {

"ConnectionString": "Server=localhost;port=5432;DatabaseDiscountDB;User Id=admin;Password=admin1234;"

},