НП "Обучение за ИТ кариера"

Сайт за музикален магазин

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Група 08

Гр.Хасково – 2025г.

1.Цели на проекта:

- Създаване на уебсайт, чрез който клиентите да закупуват музикални инструменти от ToniStore

2.Разпределение на ролите:

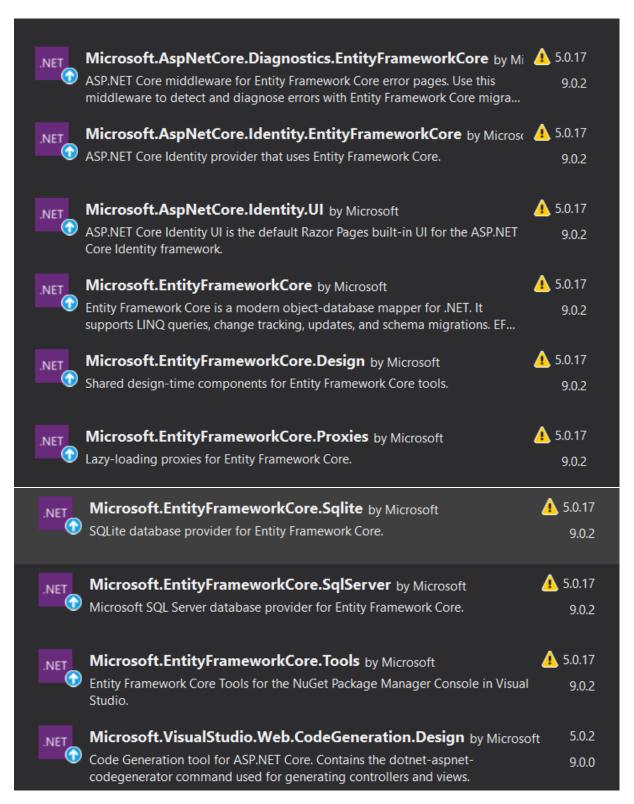
- На всеки участник в проекта му бе възложено да направи по 2 модела и по 1 контролер

3.Основни етапи в разработването на проекта:

- Използване на Code First за изграждане на базата данни
- Създаване на модели
- Създаване на контролери
- Създаване на Views(изгледи)
- Модифициране на StartUp за създаване на роли за участници и администратори (Member и Admin)

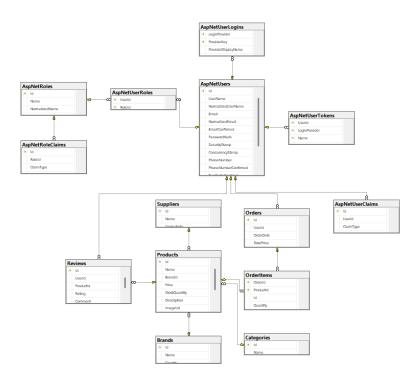
4.Реализация:

а) За реализирането на проекта са използвани следните nugget пакети:

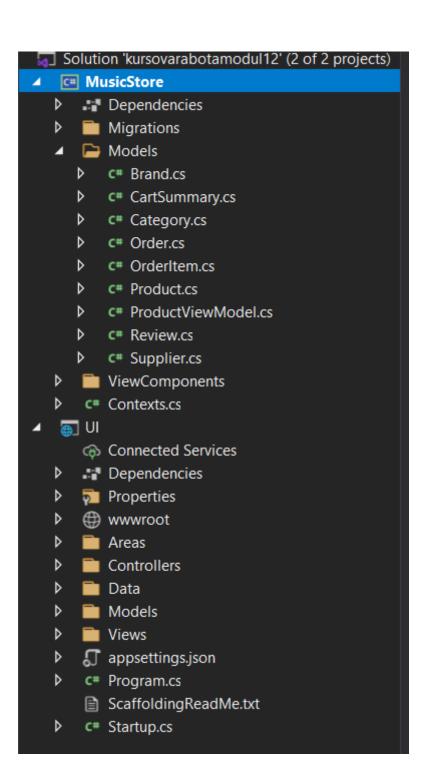


б) Диаграма на проекта:





в) Снимки от програмата:



```
using System;
        using System.Collections.Generic;
        using System.Linq;
        using System.Text;
        using System.Threading.Tasks;
        namespace MusicStore.Models
              public class Product
                    public virtual int Id { get; set; }
                    public virtual string Name { get; set; }
                    public virtual int BrandId { get; set; }
                    public virtual decimal Price { get; set; }
                    public virtual int StockQuantity { get; set; }
                    public virtual string Description { get; set; }
                    public virtual string ImageUrl { get; set; }
                    public virtual Brand Brand { get; set; }
                    public virtual int CategoryId { get; set; }
                    public virtual Category Category { get; set; }
                    public virtual int SupplierId { get; set; }
                    public virtual Supplier Supplier { get; set; }
                    public virtual ICollection<OrderItem> OrderItems { get; set; } = new List<OrderItem>();
                    public virtual ICollection<Review> Reviews { get; set; } = new List<Review>();
                    public Product() { }
 sing Microsoft.AspNetCore.Authorization;
using Microsoft.AspNetCore.Mvc;
using Microsoft.AspNetCore.Mvc.Rendering;
using Microsoft.EntityFrameworkCore;
using MusicStore.Models;
using System.Linq;
using System.Security.Claims;
using System.Threading.Tasks;
namespace MusicStore.Controllers
       [AllowAnonymous]
public async Task<IActionResult> Index(string searchString, int? categoryId)
           var query = _context.Products
    .Include(p => p.Brand)
    .Include(p => p.Category)
    .Include(p => p.Supplier)
    .AsQueryable();
           if (!string.IsNullOrEmpty(searchString))
               query = query.Where(p => p.Name.Contains(searchString) ||
    p.Description.Contains(searchString));
           if (categoryId.HasValue)
               query = query.Where(p => p.CategoryId == categoryId);
           ViewData["Categories"] = new SelectList(_context.Categories, "Id", "Name");
return View(await query.ToListAsync());
       // GET: Products/Details/5
[AllowAnonymous]
       public async Task<IActionResult> Details(int? id)
{
           if (id == null) return NotFound();
              product = await _context.Products
.Include(p => p.Brand)
               .Include(p => p.Category)
.Include(p => p.Supplier)
.Include(p => p.Reviews)
```

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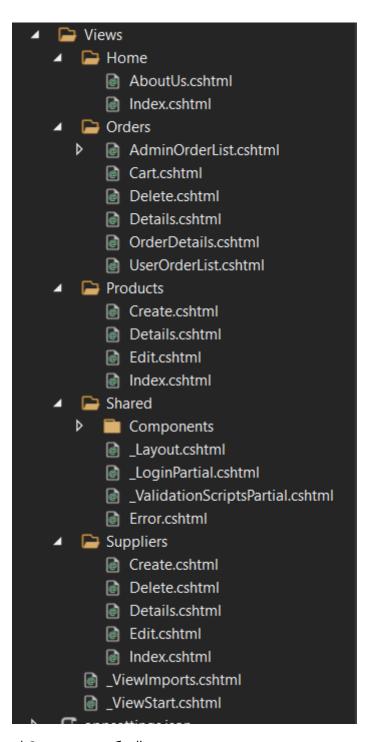
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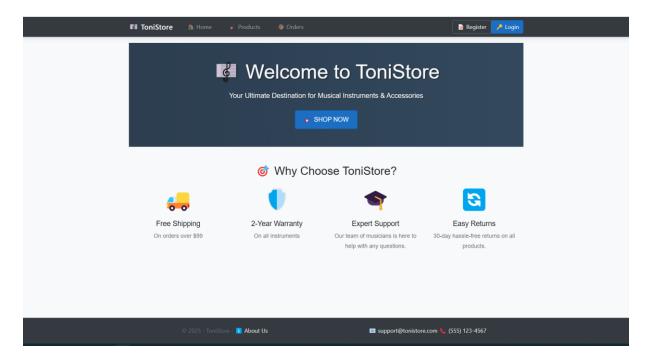
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if (category == null)
                              category = new Category { Name = model.CategoryName.Trim() };
_context.Categories.Add(category);
                               await _context.SaveChangesAsync();
                      // Create product
var product = new Product
                              Name = model.Name,
                            Name = model.Name,
BrandId = brand.Id,
CategoryId = category.Id,
SupplierId = model.SupplierId,
Price = model.Price,
StockQuantity = model.StockQuantity,
Description = model.Description,
ImageUrl = model.ImageUrl
                       _context.Products.Add(product);
await _context.SaveChangesAsync();
                       await transaction.CommitAsync();
                      return RedirectToAction(nameof(Index));
                       await transaction.RollbackAsync();
ModelState.AddModelError("", "Error saving product. Please try again.");
                      ModelState.AddModelError("",
      // Repopulate needed data if validation fails
ViewBag.Suppliers = new SelectList(_context.Suppliers, "Id", "Name");
ViewBag.ExistingBrands = _context.Brands.Select(b => b.Name).ToList();
ViewBag.ExistingCategories = _context.Categories.Select(c => c.Name).ToList();
return View(model);
private void PopulateDropdowns()
      ViewBag.Brands = new SelectList(_context.Brands, "Id", "Name");
ViewBag.Categories = new SelectList(_context.Categories, "Id", "Name");
ViewBag.Suppliers = new SelectList(_context.Suppliers, "Id", "Name");
// GET: Products/Edit/5
[Authorize(Roles = "Admin")]
public async Task<IActionResult> Edit(int? id)
       if (id == null) return NotFound();
       var product = await _context.Products.FindAsync(id);
if (product == null) return NotFound();
```

```
PopulateDropdowns(product);
    return View(product);
[HttpPost]
[ValidateAntiForgeryToken]
[Authorize(Roles = "Admin")]
public async Task<IActionResult> Edit(int id, Product product)
   if (id != product.Id) return NotFound();
    if (ModelState.IsValid)
       try
            _context.Update(product);
           await _context.SaveChangesAsync();
       catch (DbUpdateConcurrencyException)
            if (!ProductExists(product.Id)) return NotFound();
           throw;
        return RedirectToAction(nameof(Index));
    PopulateDropdowns(product);
   return View(product);
[Authorize(Roles = "Admin")]
public async Task<IActionResult> Delete(int? id)
   if (id == null) return NotFound();
    var product = await _context.Products
        .Include(p => p.Brand)
        .Include(p => p.Category)
       .Include(p => p.Supplier)
        .FirstOrDefaultAsync(m => m.Id == id);
    if (product == null) return NotFound();
    ViewBag.CanDelete = !await _context.OrderItems.AnyAsync(oi => oi.ProductId == id) &&
                     !await _context.Reviews.AnyAsync(r => r.ProductId == id);
   return View(product);
[HttpPost, ActionName("Delete")]
[ValidateAntiForgeryToken]
[Authorize(Roles = "Admin")]
public async Task<IActionResult> DeleteConfirmed(int id)
    var product = await _context.Products.FindAsync(id);
```

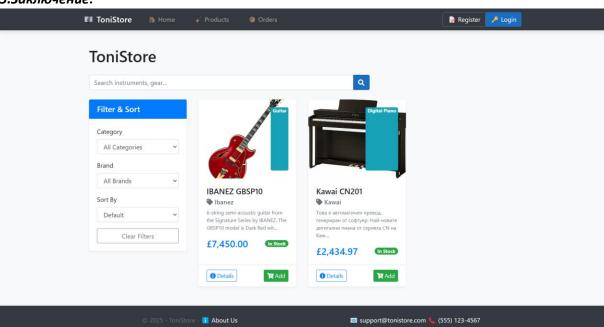
```
space MusicStore.Controllers
[Authorize(Roles = "Admin")]
public class SuppliersController : Controller
     private readonly Contexts _context;
     public SuppliersController(Contexts context)
          _context = context;
     public async Task<IActionResult> Index()
          return View(await _context.Suppliers.ToListAsync());
     public async Task<IActionResult> Details(int? id)
          if (id == null) return NotFound();
         var supplier = await _context.Suppliers
   .FirstOrDefaultAsync(m => m.Id == id);
          return supplier == null ? NotFound() : View(supplier);
     public IActionResult Create()
          ViewBag.Brands = _context.Brands.ToList();
ViewBag.Categories = _context.Categories.ToList();
ViewBag.Products = _context.Products.ToList();
          return View();
     [HttpPost]
[ValidateAntiForgeryToken]
public IActionResult Create(Supplier supplier,
                                List<int> SelectedProductIds,
                                List<string> NewProductNames,
List<decimal> NewProductPrices,
                                List<int> NewProductQuantities,
List<int> SelectedBrandIds,
                                List<string> NewBrandNames,
                               List<int> SelectedCategoryIds,
List<string> NewCategoryNames)
           if (ModelState.IsValid)
                _context.Suppliers.Add(supplier);
                _context.SaveChanges(); // Save supplier first
                // Handle existing products
if (SelectedProductIds != null)
```

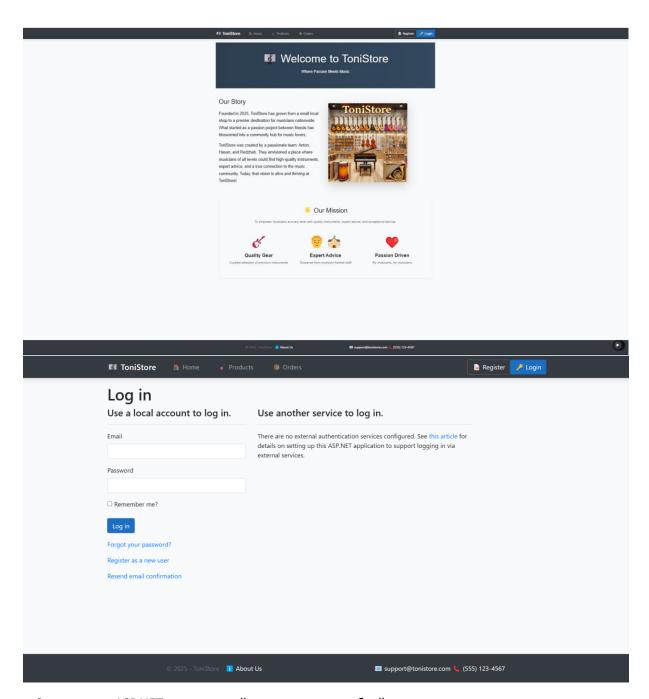


г) Снимки от уебсайта:



5.3аключение:





- Създадохме ASP.NET проект, с който направихме уебсайт за музикален магазин

6.Използвана литература:

- -Stack Overflow
- -SoftUni
- GitHub
- YouTube
- rockshock
- muzikalen
- musicmag

- muziker
- music-store
- gemamusic