

Product API – Documentation

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Repository: https://github.com/1MAM2/Asp.Net_Web_Api

Framework: ASP.NET Core 8.0 Database: MySQL ORM: Entity Framework Core

Overview

Product API is a modular backend system built with ASP.NET Core. It provides ready-to-use e-commerce features including:

Product & Category Management

User Authentication & Role Management











Order Management

Payment Integration

Dashboard Data

Soft Delete & Stock Management

It can be used with any frontend: React, Vue, Angular, or plain HTML/JS.

 Features  Feature Description  Product CRUD Add, update, delete, list products with categories & galleries  User System Register, login, JWT-based authentication, role management  Order System Create and manage orders with status updates  Payment Integration lyzipay sandbox 3D secure support  JWT Auth Secure login and token validation  Soft Delete Products & Users are soft deleted instead of permanent removal  Optimized Queries Eager loading with EF Include for faster responses  Technologies Used

ASP.NET Core 8

Entity Framework Core 8



MySQL

JWT Token Authentication

C# 12 / .NET 8

LINQ & Async Programming

☒ Note: MySQL database is required; DefaultConnection must point to the user's MySQL instance.

 Installation Guide  Clone or Download git clone https://github.com/1MAM2/Asp.Net_Web_Api.git

 Configure Database

Open appsettings.json and update:

```
"ConnectionStrings": { "DefaultConnection":  
"server=localhost;database=productdb;user=root;password=yourpassword;" }
```

⚠ User must create productdb database manually or via migration.

3 Apply Migrations dotnet ef database update

4 Run API dotnet run

Default endpoints:

HTTP: http://localhost:5039

🔗 Authentication Endpoints Method Endpoint Description

POST /api/Auth/register Register new user

GET /api/Auth/{id} Get user by ID

GET /api/Auth/verify-email Verify email token

POST /api/Auth/login Login user and get JWT token

POST /api/Auth/logout Logout user

POST /api/Auth/refresh-token Refresh JWT token

POST /api/Auth/confirm-email Confirm user email

GET /api/Auth/protectedRoute Protected route example

📁 Category Endpoints

Method Endpoint Description

GET /api/Category List all categories

POST /api/Category Create category

GET /api/Category/{catid}/products List products of a category

GET /api/Category/{catid} Get category by ID

DELETE /api/Category/{catid} Delete category

PUT /api/Category/{catid} Update category

📊 Dashboard Endpoints

Method Endpoint Description

GET /api/Dashboard Get dashboard statistics

📦 Order Endpoints

Method Endpoint Description

GET /api/Order Get all orders (Admin)

GET /api/Order/user-getall-orders Get all orders of current user

POST /api/Order/create-order Create new order

GET /api/Order/{id} Get order by ID

DELETE /api/Order/{id} Delete order

PATCH /api/Order/{id}/status Update order status

Payment Endpoints

Method Endpoint Description

POST /api/Payment/pay/{transactionId} Make payment request

POST /api/Payment/pay-callback Payment callback from lyzipay

Product Endpoints

Method Endpoint Description

GET /api/Product List all products

POST /api/Product Create product

GET /api/Product/{id} Get product by ID

PUT /api/Product/{id} Update product

DELETE /api/Product/{id} Soft delete product

PUT /api/Product/{id}/stock Update product stock

User Endpoints

Method Endpoint Description

GET /api/User List all users

GET /api/User/me Get current user info

DELETE /api/User/deleteAccount Delete own account

PUT /api/User/soft-delete/{id} Soft delete any user

PUT /api/User/updateuser Update current user info

PUT /api/User/change-role Change role of a user

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 Support

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