HOSHŌ DIGITAL

Project: Product Inventory REST API

Objective

Build a simple **RESTful API** using **ASP.NET Core Web API** to manage products in an inventory.

Requirements

Core Features

- **Add Product** – Name, Description, Price, StockQuantity, Category.
- **Get All Products** – Optionally filter by **Category** and sort by **Price**.
- **Get Product by ID** – Fetch a single product.
- **Update Product** – Modify product details like price or stock.
- **Delete Product** – Soft delete (mark as inactive).

Technical Guidelines

- Use **ASP.NET Core Web API** and **Entity Framework Core**.
- Use **SQLite** or **SQL Server LocalDB** for storage.
- Validate inputs and return proper HTTP status codes (200, 201, 400, 404).

Optional Bonus

- Search by product name or description.
- Pagination for product list.
- Low-stock alert (e.g., stock < 5).

Deliverables

- Project on **GitHub/GitLab**.

- **README.md** with setup steps.

- **Postman collection** or sample API endpoints.