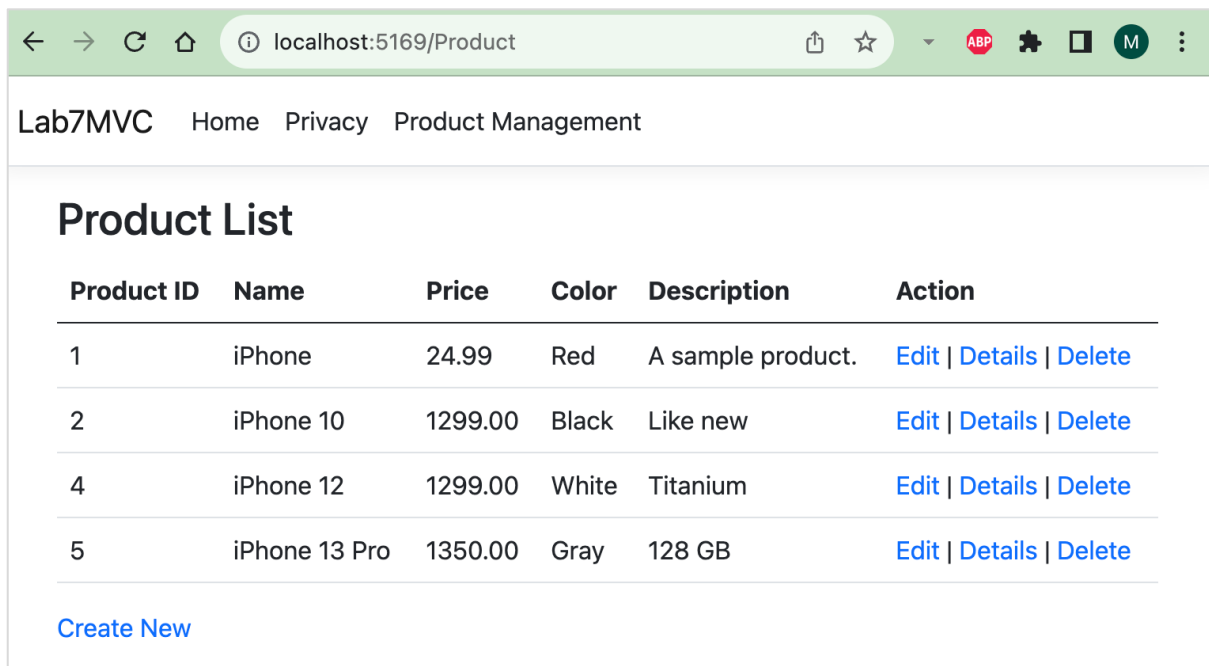# .NET Technology

(503112)

By Mai Van Manh

Lab 07: ASP.NET MVC

Exercise: Develop a web application utilizing the ASP.NET Core Web App (Model-View-Controller) template to implement specific **Product**(id, name, price, color, description) and **Account**(id, fullname, email, password, roles) management functionality, which encompasses basic CRUD operations like product listing, product details display, product addition, product information updating, and product deletion.

An example of the product management page: /Product/Index

Detailed requirements:

1. Employ Entity Framework Core for the persistent storage of product data in a database.

2. Implement data entry form validation mechanisms.

3. Add two additional attributes **quantity** and **storage capacity** to the Product class, perform database migration and adjust the c# code and necessary cshtml files to be compatible with these two new attributes.

Product List

Product ID	Name	Price	Color	Description	Action
1	iPhone	24.99	Red	A sample product.	Edit | Details | Delete
4	iPhone 12 Pro	1299.00	Grey	Titanium	Edit | Details | Delete
5	iPhone 13 Pro	1350.00	Gray	128 GB	Edit | Details | Delete
6	iPhone 12 Pro Max	1000.00	Black	Like New	Edit | Details | Delete

Make sure that the Quantity and Storage Capacity properties are only displayed on the product detail, edit and delete pages, not on the product listing page.
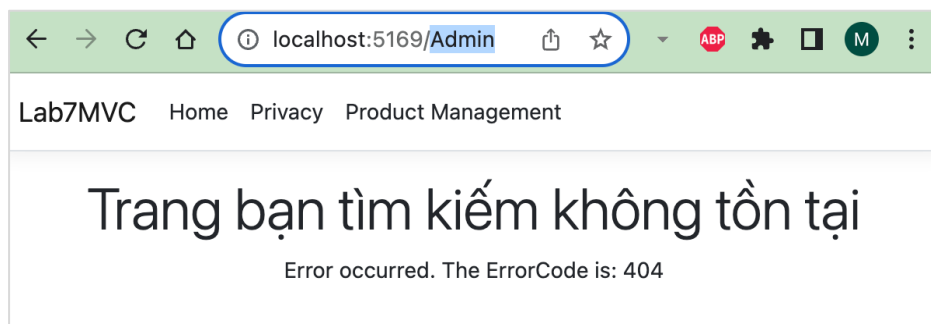
Product Details
Product Information

Name	iPhone 12 Pro
Price	1299.00
Color	Grey
Description	Titanium
Storage	256
Quantity	10

Back to List

4. Implement 404 error handling and display a customized error page. In cases where the user enters an invalid URL, present the message "The content you searched for is invalid," along with the erroneous URL entered by the user.

When accessing an undefined path, the default 404 error page will be shown
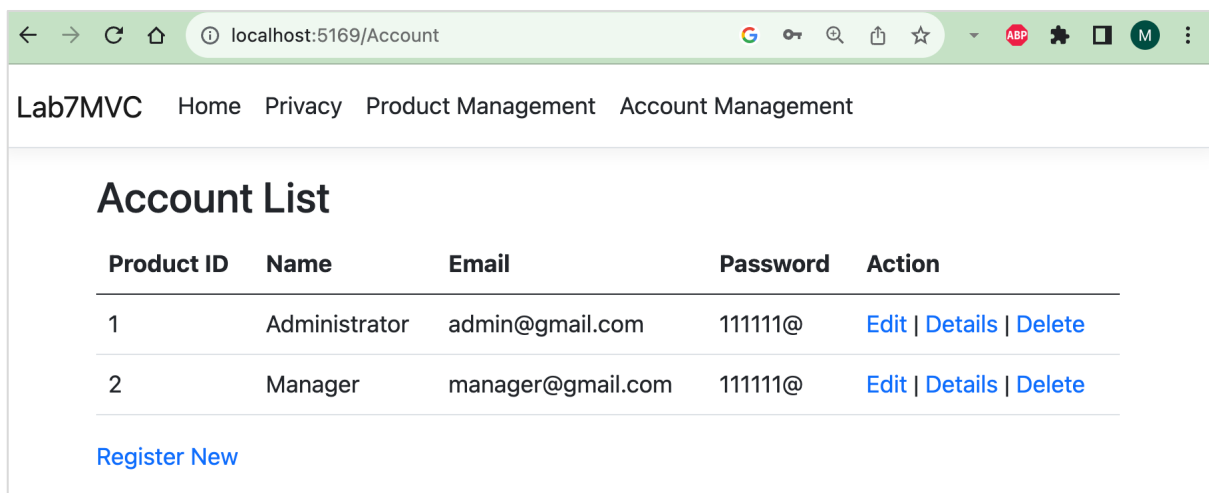
An example of the account management page interface. Let's temporarily ignore security issues and consider the account as a normal entity.

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Register

FullName

Email

Password

ConfirmPassword

Select Roles:
- ☑ User
- ☐ Manager
- ☑ Admin

Register

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Login

Email

Password

Login

An example of the login and register pages