

A grayscale background image of a person wearing large headphones, looking intently at a laptop screen. The person's hand is resting on their chin, suggesting deep thought or concentration. The image is dimly lit, with the laptop screen providing a source of light.

# ASP.NET CORE WEBAPI (.NET 5) COURSE

HIENLTH Channel

# Course Outline

## **Lesson 1.**

Introduction to  
WEB API

## **Lesson 2.**

Working with Relation  
Database Entity  
Framework Core

## **Lesson 3.**

Controller Action Return  
Types & HTTP Response  
Status Code

## **Lesson 4.**

Sorting, Filtering, Paging

## **Lesson 5.**

Authentication  
Authorization

## **Lesson 6.**

Web API  
versioning

## **Lesson 7.**

Web API Logging with  
Serilog

## **Lesson 8.**

Web API Testing using  
NUnit



## Lesson 4

- Filtering
- Sorting
- Paging

# EF Core: Filtering Data

Sử dụng LINQ to Entities

Có 2 cách dùng Lambda Syntax và Query Syntax

Lambda Syntax	Query Syntax
<pre>var dsHH = ctx.HangHoas .Where(hh =&gt; hh.DonGia &gt; 10)</pre>	<pre>var dsHH = <b>from</b> hh <b>in</b> ctx.HangHoas <b>where</b> hh.DonGia &gt; 10 <b>select</b> hh;</pre>
<pre>var dsHH = ctx.HangHoas .Select(hh =&gt; hh.TenHH)</pre>	<pre>var dsHH = <b>from</b> hh <b>in</b> ctx.HangHoas <b>select</b> hh.TenHH;</pre>
<pre>var dsHH = ctx.HangHoas .Select(hh =&gt; new {hh.TenHH, hh.DonGia})</pre>	<pre>var dsHH = <b>from</b> hh <b>in</b> ctx.HangHoas <b>select</b> new {hh.TenHH, hh.DonGia};</pre>

# EF Core: Filtering Data (tt)

Lambda Syntax	Query Syntax
<pre>var dsHH = ctx.HangHoas .Where(hh =&gt; hh.DonGia &gt; 10 &amp;&amp;            hh.DonGia &lt; 1000)</pre>	<pre>var dsHH = from hh in ctx.HangHoas            where hh.DonGia &gt; 10 and hh.DonGia &lt; 1000            select hh;</pre>
<pre>var dsHH = ctx.HangHoas .Where(hh =&gt; hh.DonGia &gt; 1000               hh.SoLuong &lt; 10)</pre>	<pre>var dsHH = from hh in ctx.HangHoas            where hh.DonGia &gt; 1000 or SoLuong &lt; 10            select hh;</pre>

# Filtering Data (tt)

Lấy phần tử đầu tiên:

- First(), **FirstOrDefault()**

Lấy phần tử cuối cùng:

- Last(), **LastOrDefault()**

Lấy phần tử duy nhất:

- Single(), **SingleOrDefault()**

# Sorting, Paging

- **Sắp xếp:**
  - **query.OrderBy()**
  - **query.OrderByDescending()**
  - **query.ThenBy()**
  - **query.ThenByDescending()**
- **Phân trang: Skip() / Take()**
  - **query.Skip(skipN).Take(pageSize)**



A man and a woman are shown from the chest up, looking at a laptop screen. The man is on the left, wearing a grey sweater, and the woman is on the right, wearing a denim shirt over a white t-shirt. They are both smiling and looking at the screen. The background is a light-colored wall.

# Interaction

- Like & Share
- Q&A
  - Leave a comment



A black and white photograph of a person clapping their hands. The person is wearing a plaid shirt. In the foreground, there is a desk with an open notebook and a smartphone. In the background, a tablet is visible on a stand. The overall scene suggests a classroom or a meeting.

# THANK YOU!

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