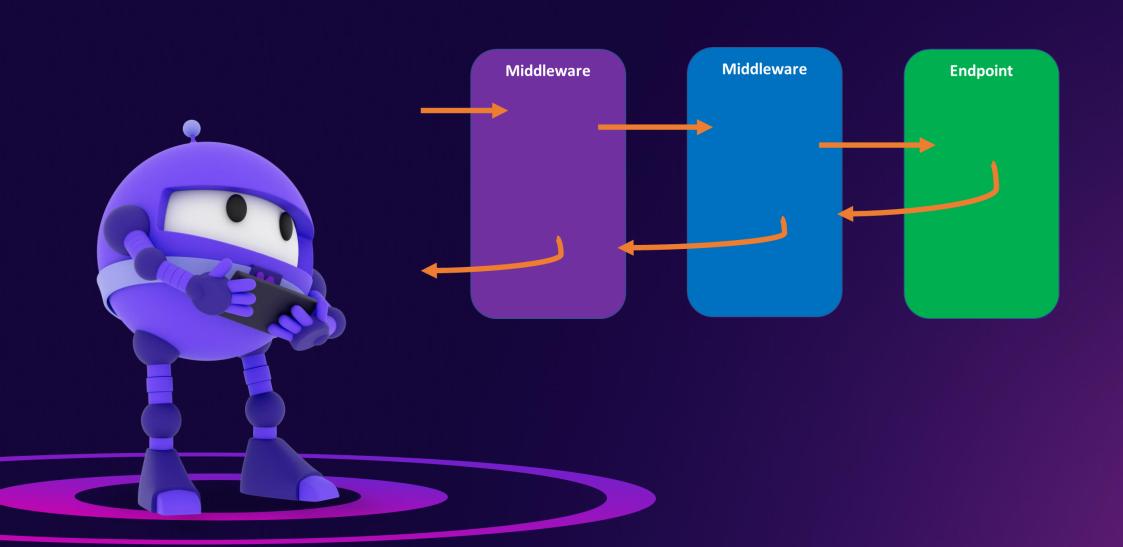
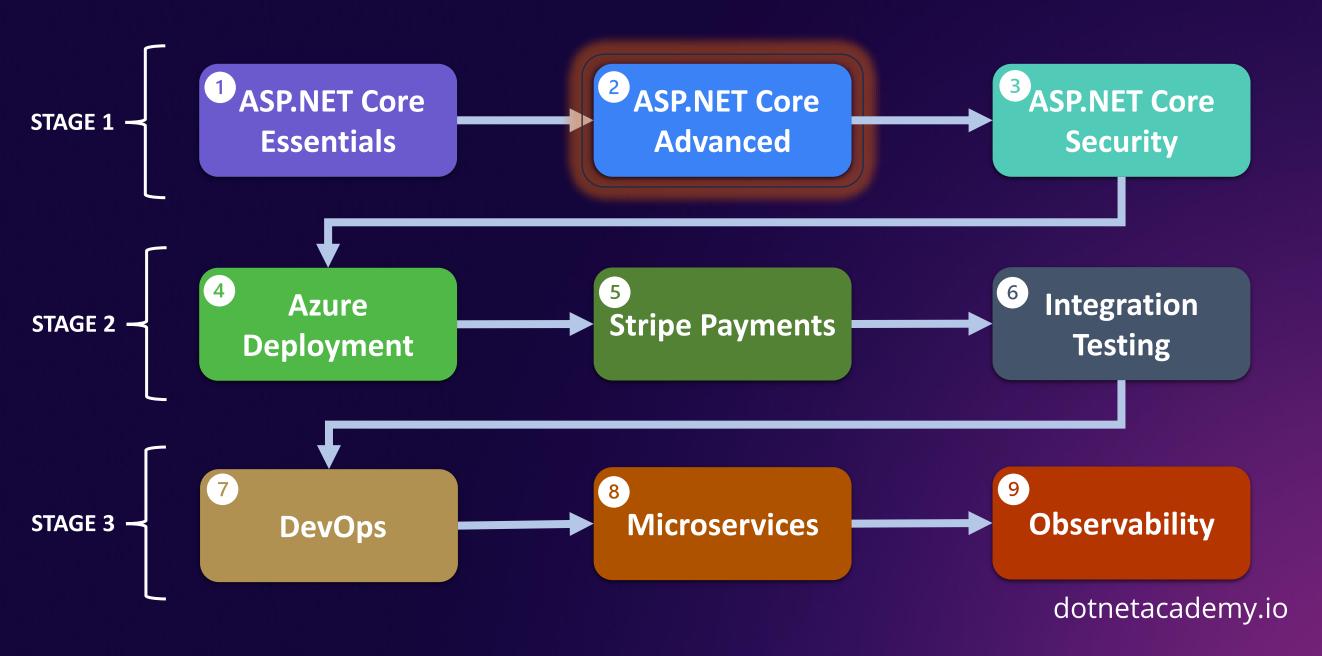
2. ASP.NET Core Advanced



Where are we?



ASP.NET Core Advanced Topics

Asynchronous Programming

Logging

Middleware

Error Handling

Pagination

Search

File Upload

UI Integration

What you need to know first

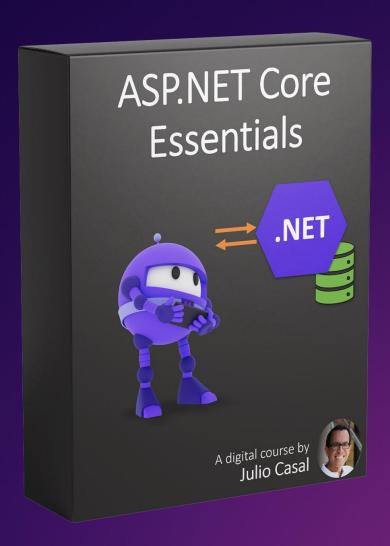
Create REST APIs with ASP.NET Core

Vertical Slice Architecture

Dependency Injection

Working With Data (EF Core)

Configuration System



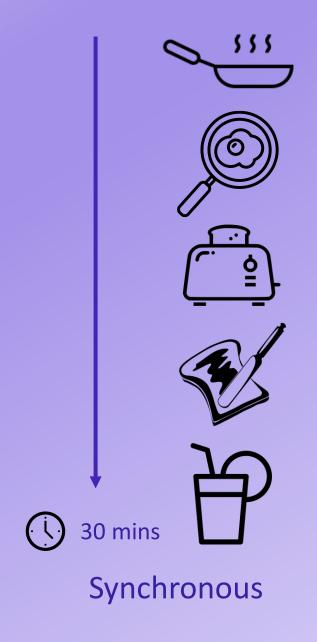
dotnetacademy.io

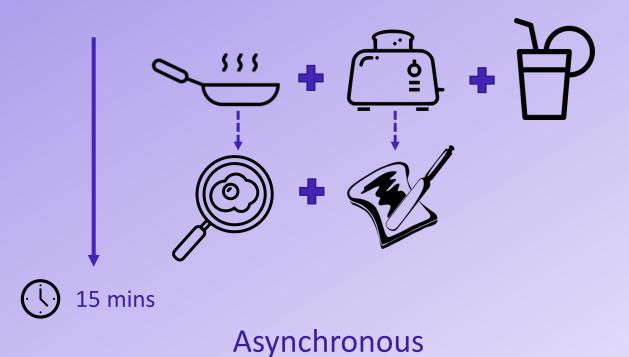
Software prerequisites



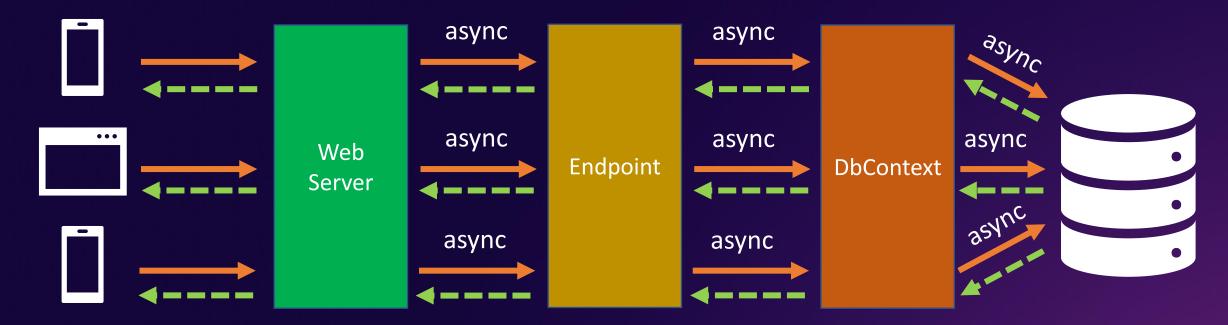
Postman
https://www.postman.com/downloads

Performing asynchronous work





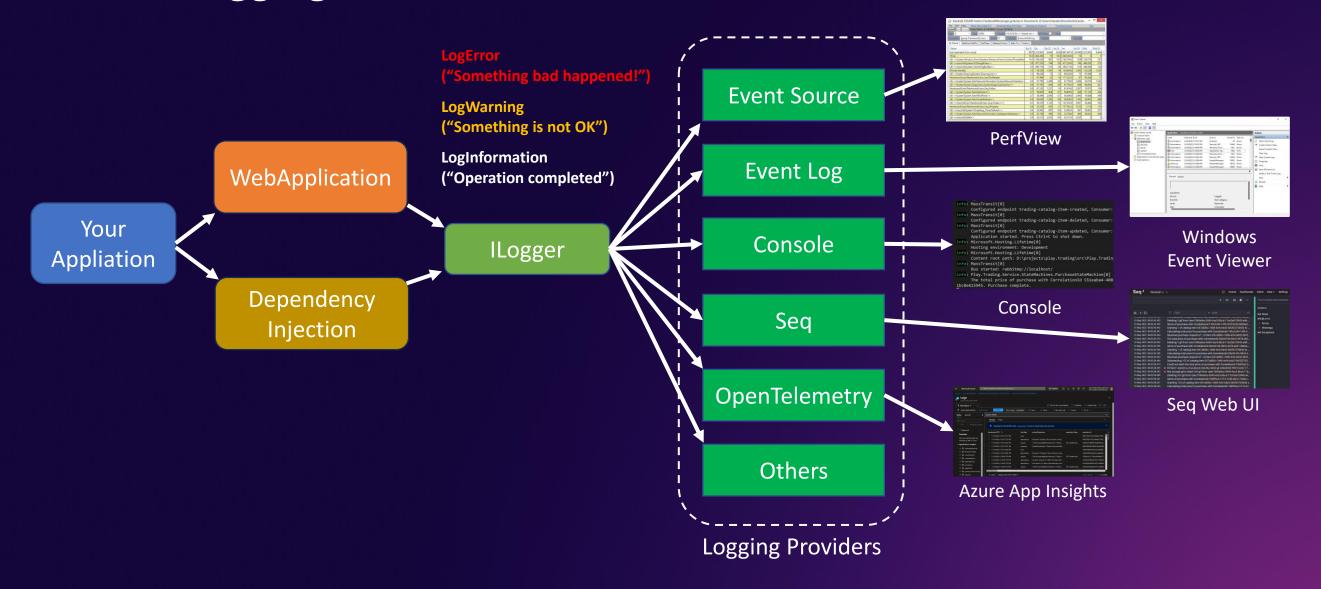
Asynchronous programming in ASP.NET Core



Benefits of the Asynchronous Programming Model

- Improved Performance: Avoids blocking callers, freeing them up for other tasks
- Improved Scalability: Allows your application to handle more requests and users simultaneously
- **Simplified code:** Asynchronous code is simple to write via task objects and the async and await keywords

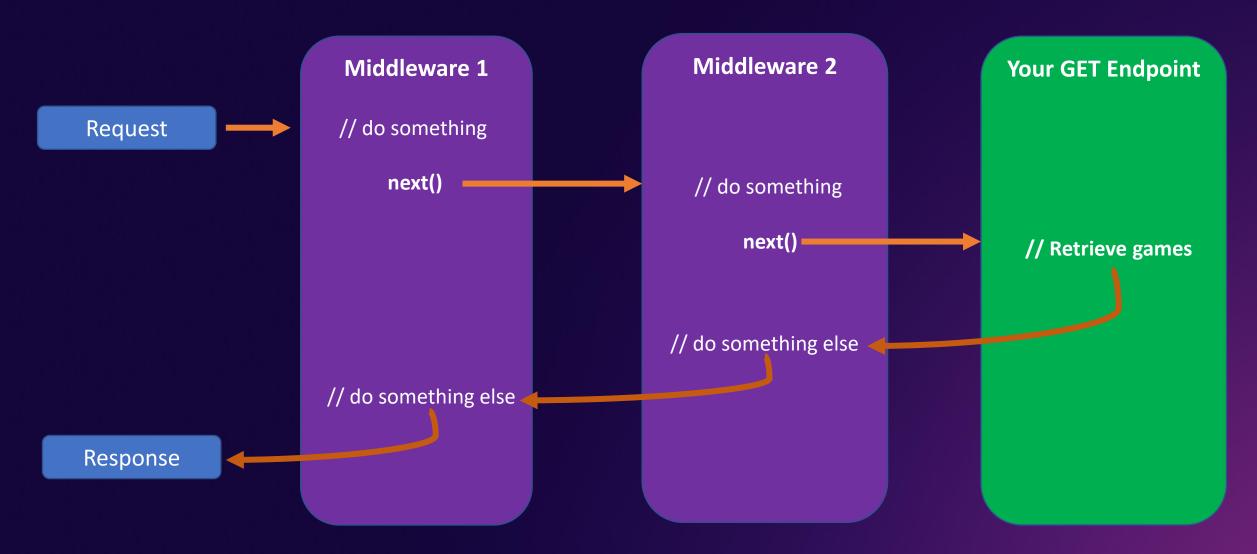
How Logging Works in ASP.NET Core



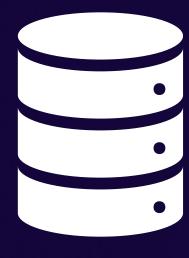
What is Middleware in ASP.NET Core?

Middleware is software that's assembled into an app pipeline to handle requests and responses.

The ASP.NET Core Request Pipeline



Where to upload user files?

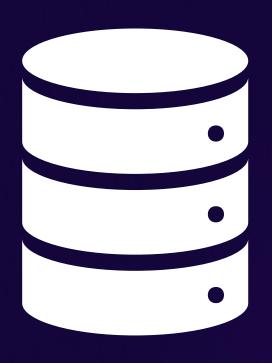


Database



Website File System

Storing files in the database



Issues

Increased database size

Slow performance

Hard to scale

Challenging to backup

Cost

Storing files in the website file system

Benefits

Better performance

Simpler to implement

Cost effective

No database impact

Caching

Issues

Security risk

Hard to scale

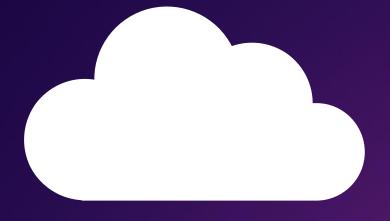
Limited disk space

Challenging to back up

File upload choice for this course



This course



Later in the bootcamp