

ASP.NET Core 6 Fundamentals

Understanding ASP.NET Core 6 and ASP.NET Core 6 MVC



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You know HTML and CSS and want
to build your next web application.





HTML and CSS can be used
to create static content.



You'll Want to Create Dynamic Content



List of products



Shopping cart



Authenticate





You'll need a web framework that can render HTML dynamically.





With ASP.NET Core, you can
use C# to create modern
web applications.



Module overview



What is ASP.NET Core?

What will you learn in this course?

Getting your machine ready



Version Check



This version was created by using:

- ASP.NET Core 6
- .NET 6
- Visual Studio 2022



Version Check



This course is 100% applicable to:

- ASP.NET 6
- .NET 6
- Visual Studio 2022 (any edition)

**Most code will work fine with older
versions of ASP.NET Core**



What Is ASP.NET Core?



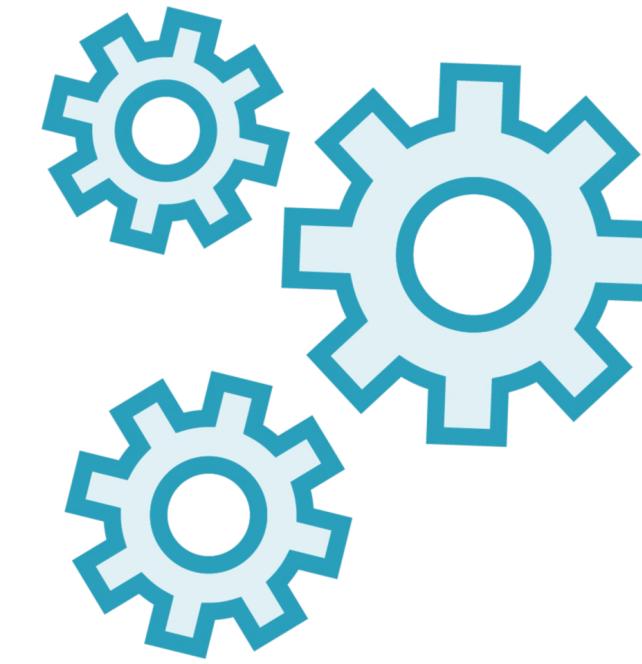
ASP.NET Core is an open source web framework, created by Microsoft and the community, for building modern web apps and services with .NET.



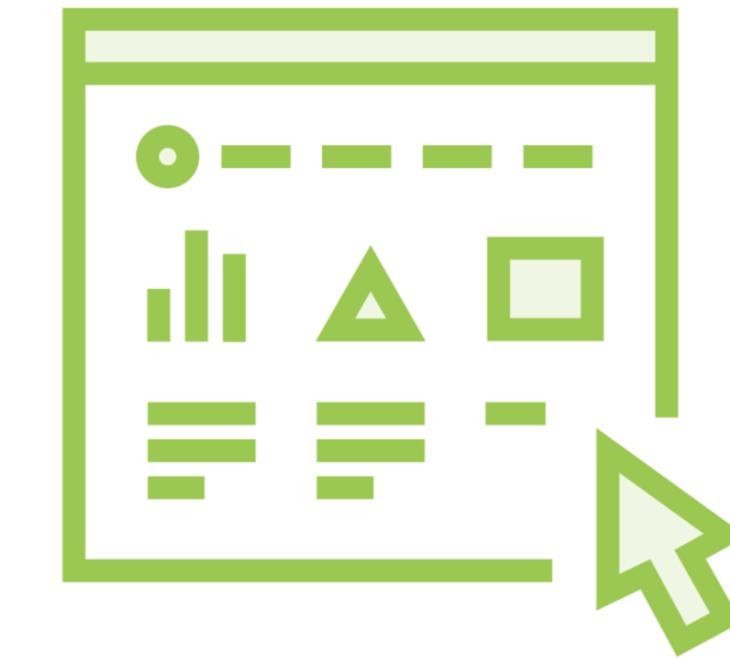
What Can We Build with ASP.NET Core?



**Server-side
rendered applications**



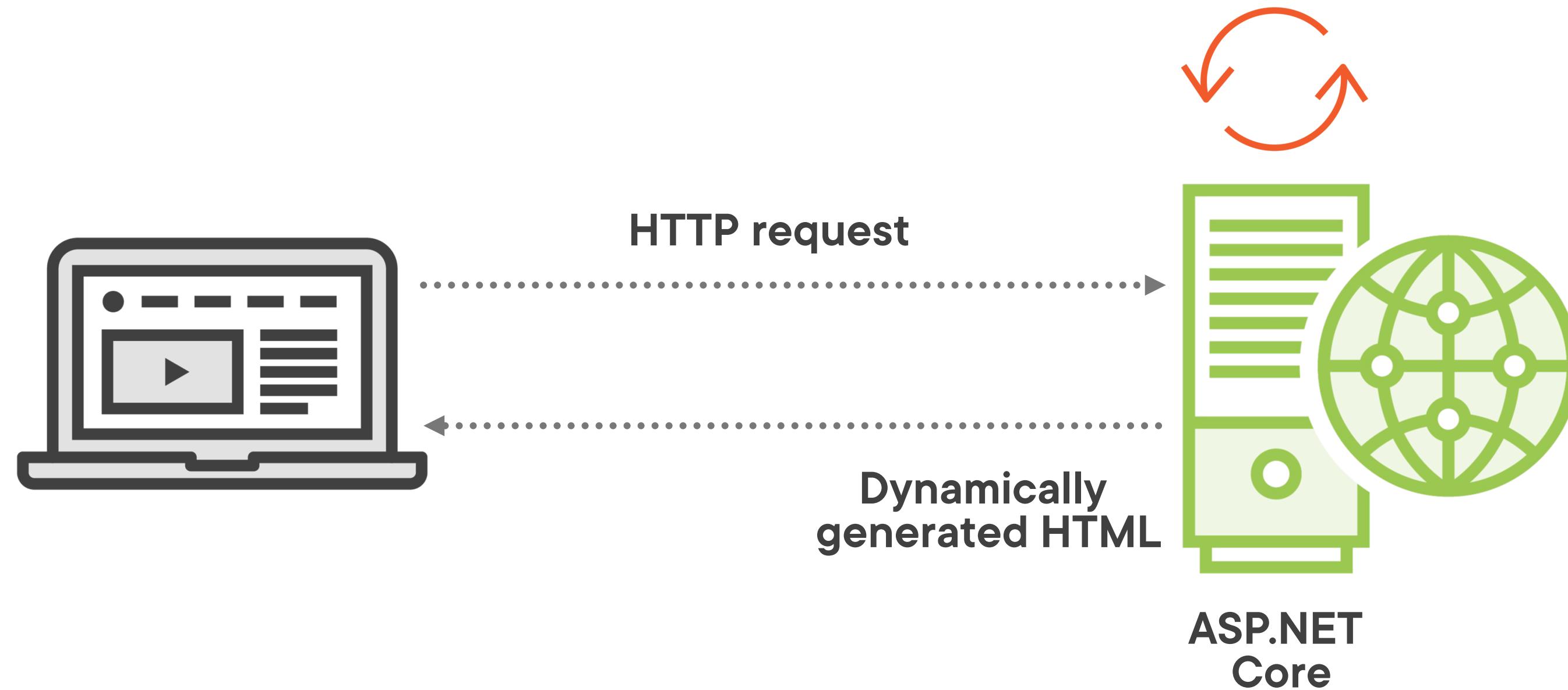
Services



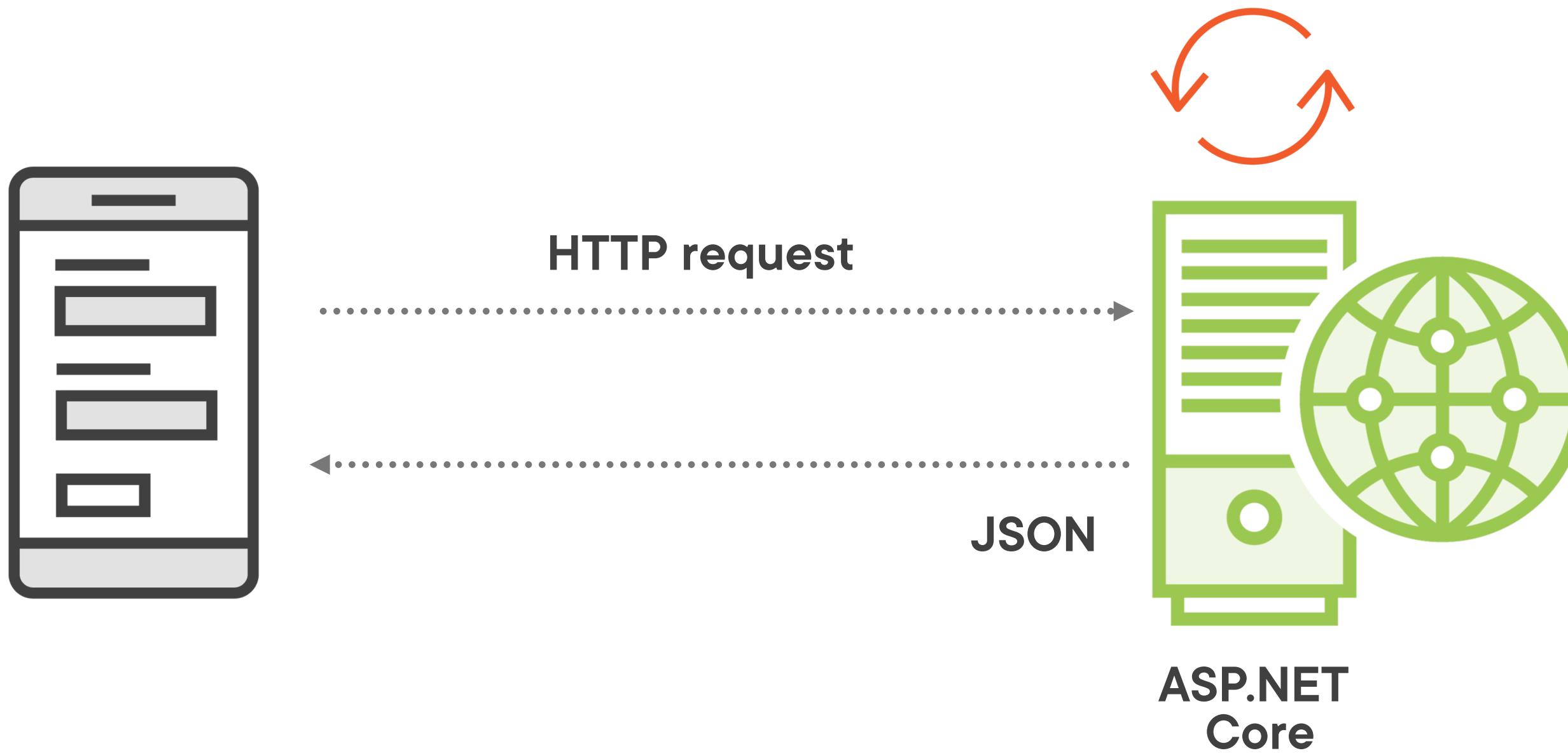
**Client-side
rendered applications**



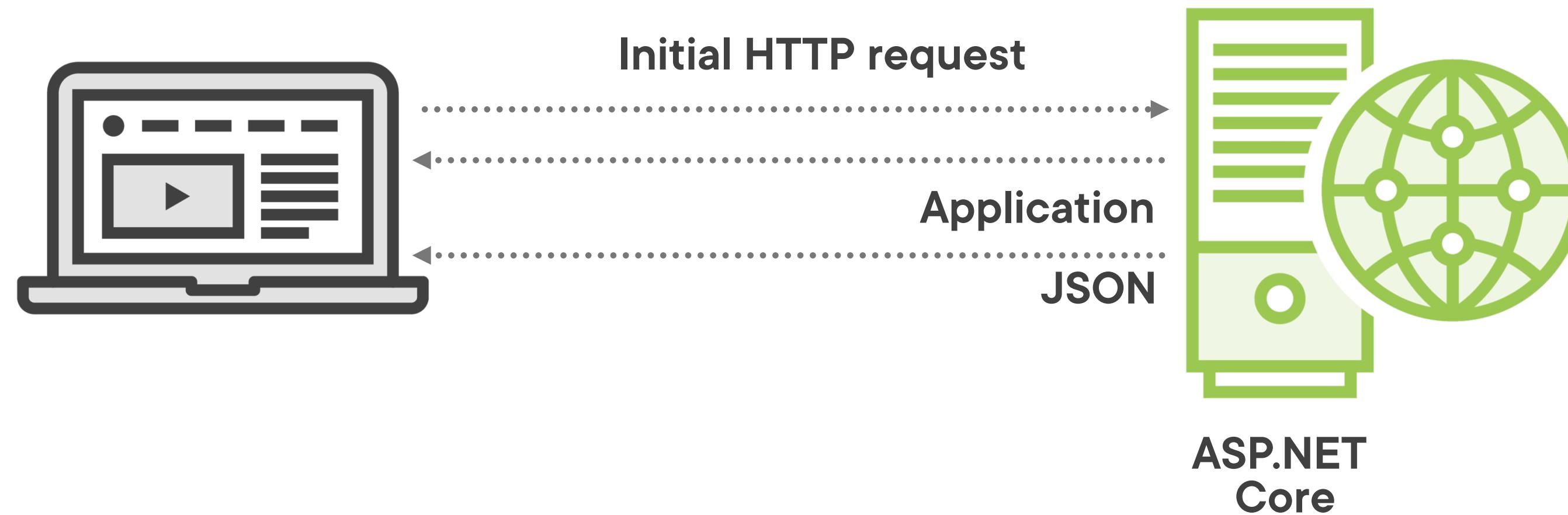
Server-side Rendered Applications



ASP.NET Core Services



Client-side Rendered Applications



Goals of ASP.NET Core

Cross-platform framework

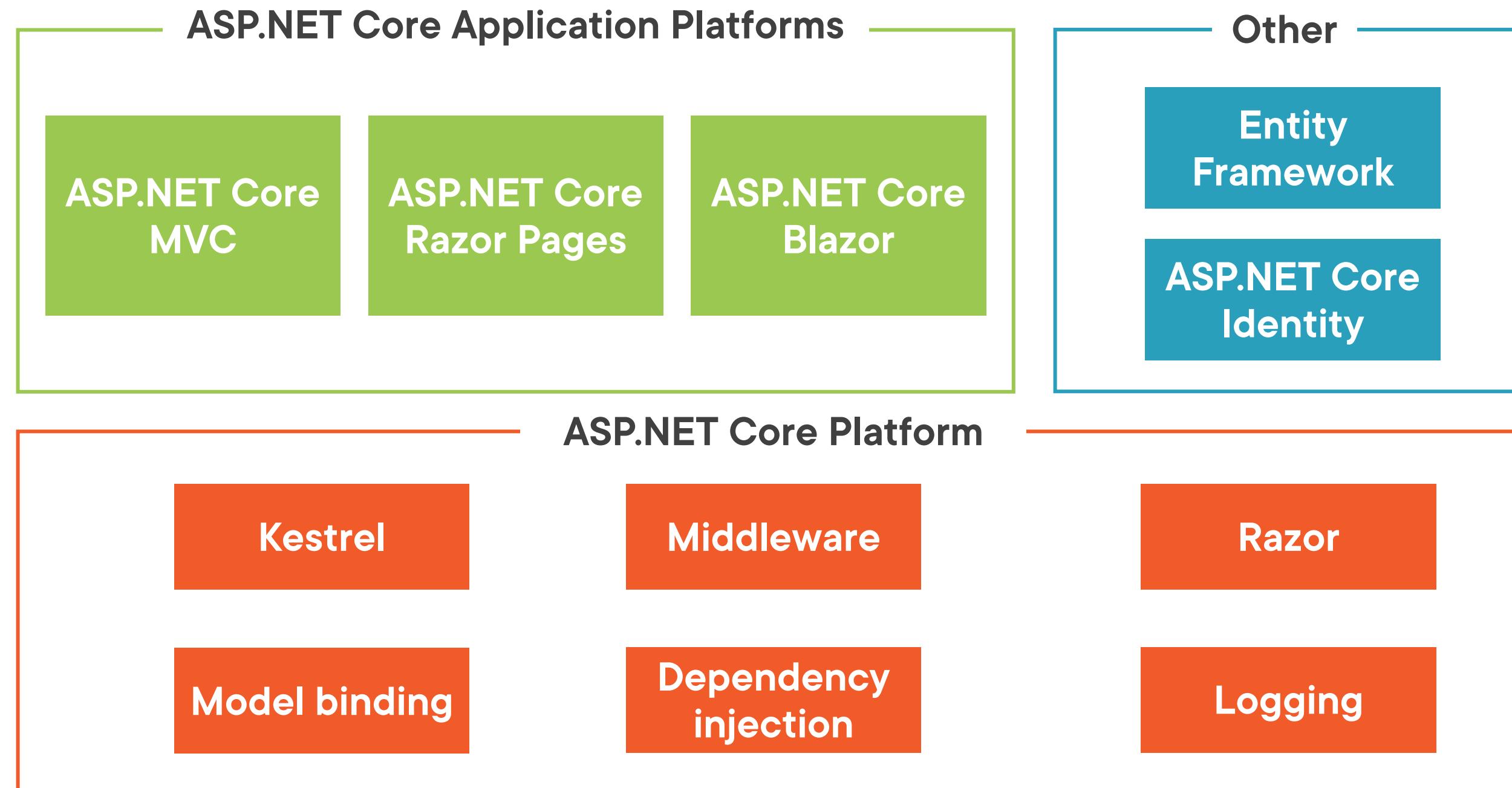
Open source

Faster development cycle

Modular



The Architecture of ASP.NET Core



ASP.NET Core Application Frameworks

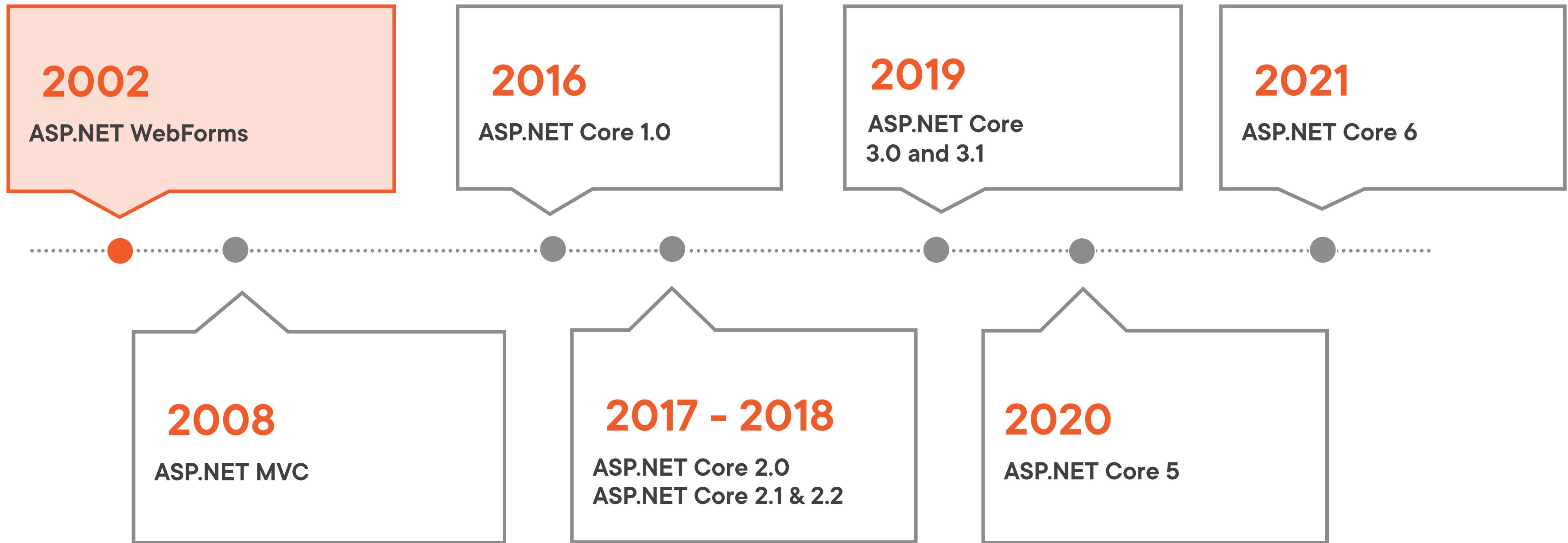
MVC

Razor Pages

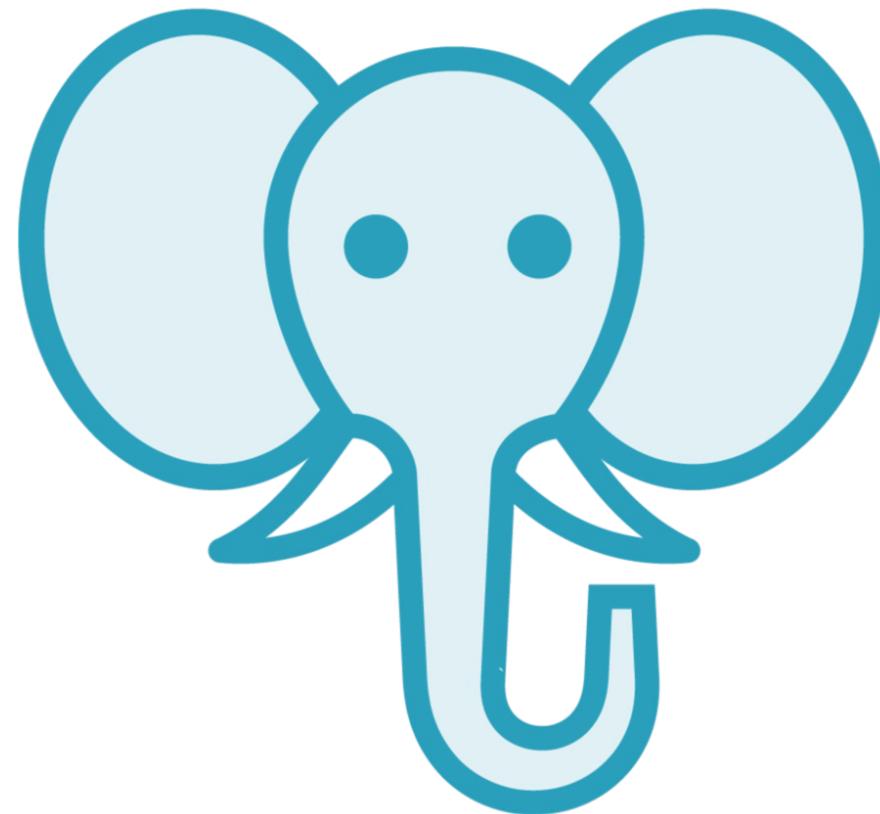
Blazor



The History of ASP.NET Core



LTS and “Current” Versions



LTS (Long-term support)
Supported 3 years after
release of next version



“Current” release
Supported only 6 months
after release of next version



What Will You Learn in This Course?



You'll build a full ASP.NET Core 6
application using Visual Studio 2022



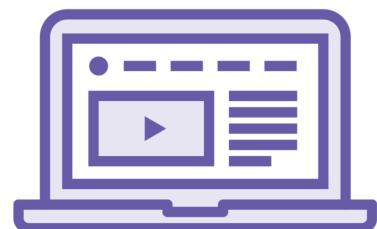
How We Will Approach This Course



File → New Project



Quite some code...



And then, your first ASP.NET Core 6 application!



What You'll Learn in This Course

ASP.NET Core

**Application
Frameworks**

**Entity Framework
Core**

Security

Testing

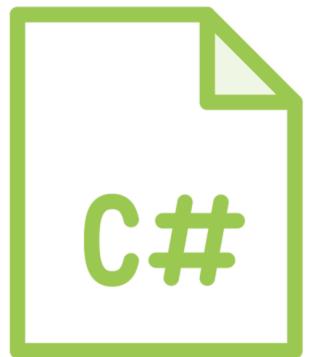
Deployment



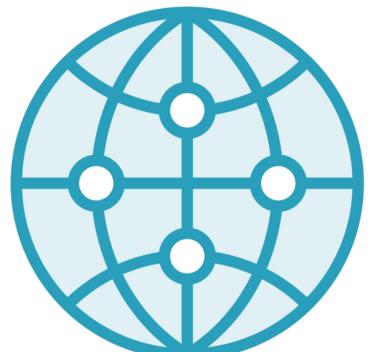
What I Assume You Know



Basic HTML and CSS



C#



Affinity with web development



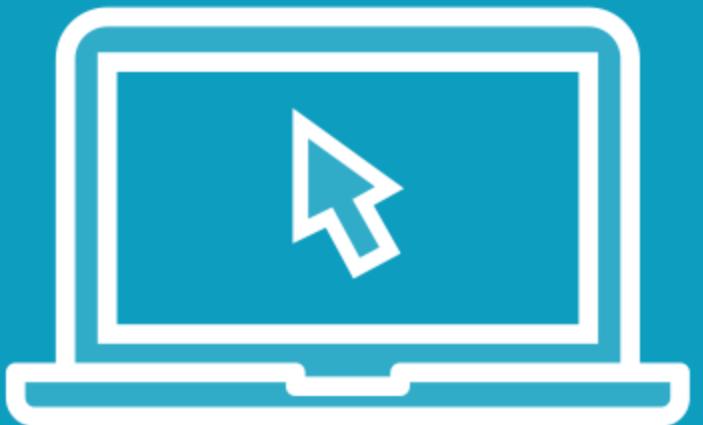


The Scenario: Bethany's Pie Shop

- Home page and pie list pages
- Shopping cart
- Checkout form
- Interactive search page
- Authentication



Demo



Exploring the finished application



Getting Your Machine Ready



Installation Requirements

Visual Studio

Windows: Visual Studio 2022

Mac: Visual Studio 2022

Not available for Linux

Visual Studio Code

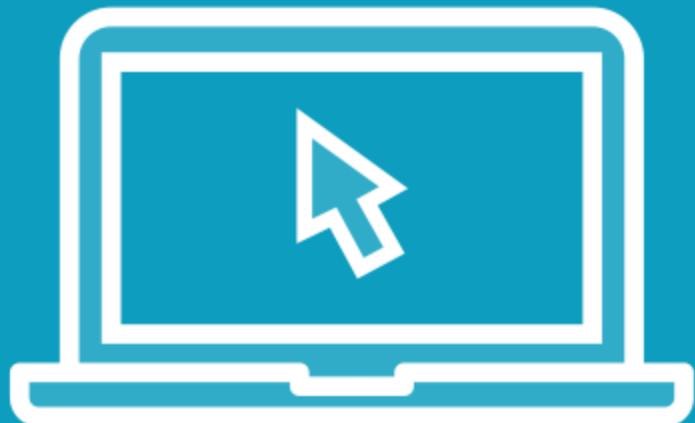
.NET CLI

Code with C# plugin

All platforms supported



Demo



Getting your machine ready



Summary



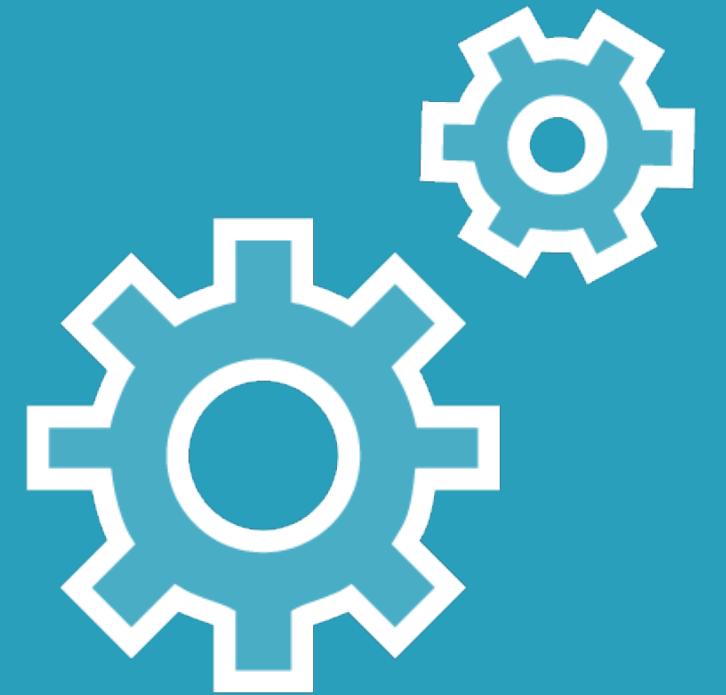
ASP.NET Core is the platform from Microsoft to build modern web applications

Cross-platform and open-source

Evolution of ASP.NET

- Not a direct migration path





Up next:
Setting up and configuring our site

