### Binding Simple Types to a Request (—)

- For simple types such as int, string, and double, ASP.NET Core automatically tries to bind the value to a route parameter, or a query string value:
  - ■If the parameter name matches a route parameter name, binds to the associated route value.
  - ■If the parameter name doesn't match any route parameter name, bind to a query string value.

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#### Binding Simple Types to a Request (二)

- ■Example
  - ■/products/123
  - ■/products?id=456

app.MapGet("/products/{id?}", (int id) => \$"Received {id}");

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#### Binding Simple Types to a Request (三)

■ The [From\*] attributes override ASP.NET Core's default logic and forces the parameters to load from a specific binding source.

```
GET /products/123/paged?page=1 HTTP/1.1
Host: localhost
PageSize: 20

123
app.MapGet("/products/{id}/paged",
([FromRoute] int id,
[FromQuery] int page,
[FromHeader(Name = "PageSize")] int pageSize)
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```

#### **Binding Complex Types to the JSON Body**

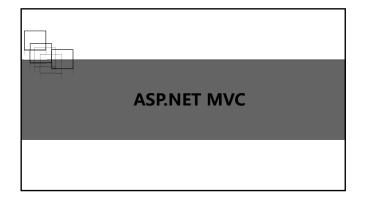
■Minimal APIs can bind the body of a request to a single complex type by deserializing the request from JSON, create the object.

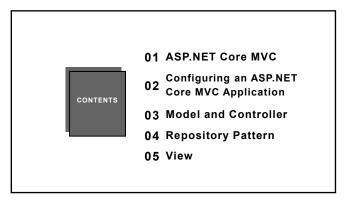
app.MapPost("/product", (Product product) => \$"Received {product}");
record Product(int Id, string Name, int Stock);

{ "id": 1, "Name": "Shoes", "Stock": 12 }

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06 Dependency Injection
07 URL Routing
08 Logging Service
09 Model Binding
10 Tag Helpers

1. ASP.NET Core MVC

Structure of ASP.NET Core

ASP.NET Core is Microsoft's web development platform.

Most of your development time will be spent with the application frameworks.

Application Frameworks

Application Frameworks

Blazor

Blazor

Blazor

Blazor

Caching

Model

Briding

Razor

Blazor

Briding

Razor

Blazor

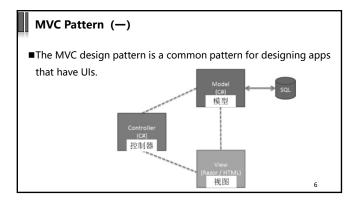
Briding

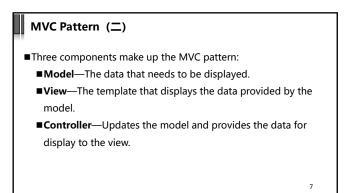
Briding

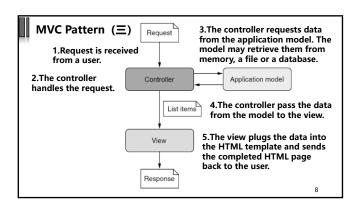
Briding

Briding

SignalR







2. Configuring an ASP.NET

Core MVC Application



解决方案资源管理器 **Project Structure** ○ ○ ☆ □ ○ · ← □ □ □ □ 搜索解决方案资源管理器(Ctrl-■The Program.cs file contains the code statements that are executed © Connected Services Properties when the application is started. 8日 依赖项 ▲ ■ Controllers ■Configure the ASP.NET platform; ▶ C# HomeController.cs ▲ ■ Models ■Configure the individual ▶ C# AppMessage.cs frameworks it supports. ▲ I Home Index.cshtml appsettings.json

Services

Services are objects that provide features in a web application.

They are managed by the ASP.NET Core platform that can be shared by middleware components.

Service

Service

Service

Middleware
Component

HTTP
Request Pipeline
Component

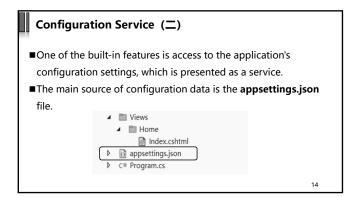
Middleware
Component

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## Configuration Service (—)

- ■Configuration is the set of external parameters provided to an application that controls the application's behavior in some way.
- ■It typically consists of a mixture of settings and secrets that the application loads at runtime.
  - A setting is value that changes the behavior of your application.
  - A secret is a special type of setting that contains sensitive data, such as a password.

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