Debugging and Error Handling in ASP.NET Core 6 Web API

Handling Errors and Formatting Responses



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Overview



Multiple Environments

- Development
- Production

Error Handler Page

- Visualize errors in a common format

Catch Errors Using Filters

- Modify response based on error

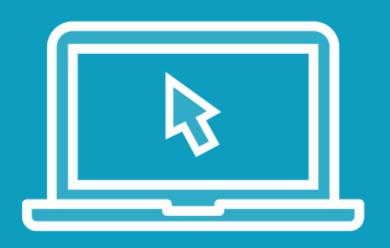
Enrich Status Code Response Information

- Custom help links and names for status codes

Override Default Error Generator



Setting Up Multiple API Environments

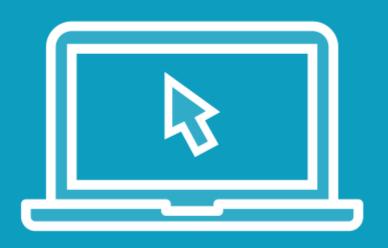


Setting up Multiple Environments

- Create multiple app environment for testing

Creating Custom Error Handler Pages

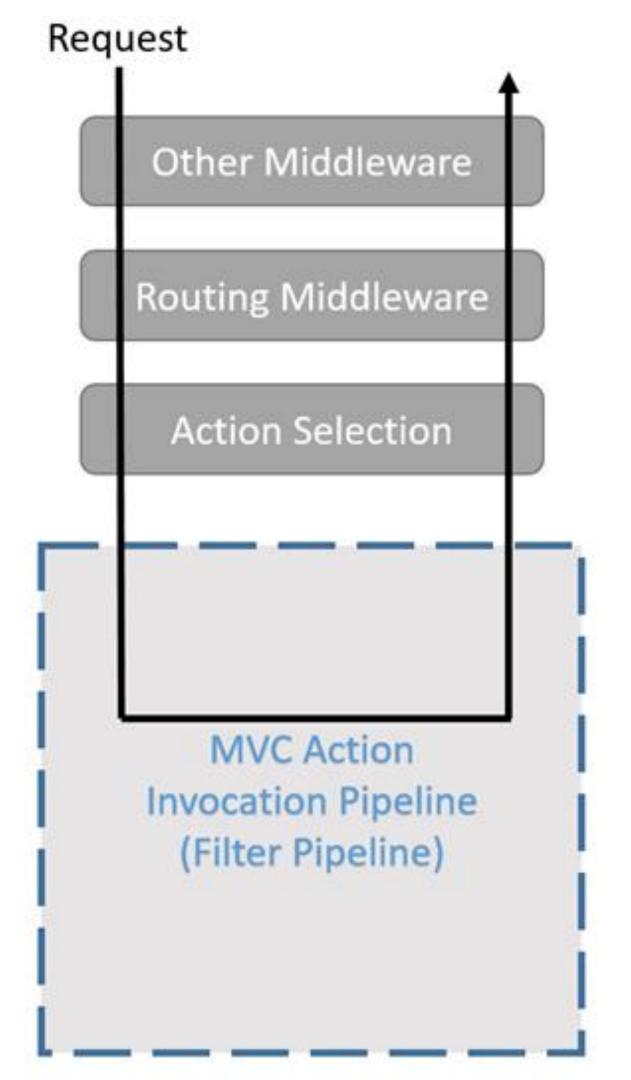




Creating custom error handler page

- Control how errors are displayed using an error page

Modifying API Responses Using Filters



Filter Types

Authorization Runs first.

Determine whether the user is authorized for the request.

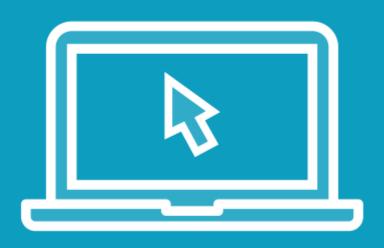
Resource Filters After Authorization.

Action Filters Run immediately before and after an action method is called.

Apply global policies to unhandled exceptions that occur before the response body has been written response body has been written

Run immediately before and after the execution of action results. Run only when the action method executes successfully.

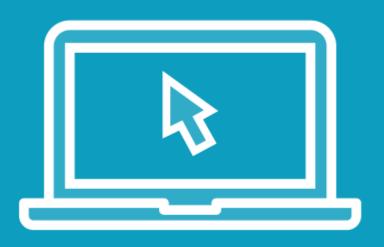




Modifying API Responses using Filters

- Create filters
- Modify response output using filters

Mapping Error Codes to Instruction Links



Mapping Error Codes to Instruction Links

- Map error codes to documentation links

Customizing Default Error Details





Customizing Default Error Details

- Implement ProblemDetailssFactory
- Customize output of the error

Summary



New Environment

- Production

Custom Error Handler

- Production
- Development

Exception Filter

Client Error Mapping

- Enrich status code information using client error mapping

Override Default Problems Factory with Custom Implementation

