# Chapter 08: Securing API

Q1. CORS stands for? A. Cross-Origin Resource Sharing B. Cross-Origin Remote Sharing C. Cross-Original Resource Sharing D. Cross-Origin Resource Share  Answer: D  Page:131
<ul> <li>Q2. What is the difference between Authentication and Authorization?</li> <li>A. verifying the identity of the person, verifying the authenticated user</li> <li>B. verifying the authenticated user, verifying the identity of the person</li> <li>C. Both are same</li> <li>D. None</li> <li>Answer: A</li> <li>Page:132</li> </ul>
Q3. Which one is true?  A. NTLM protocol is faster than Kerberos. B. Kerberos protocol is faster than NTLM. C. Both are faster. D. Kerberos protocol is faster than NTLM.  Answer: B  Page:134
<ul> <li>Q4. The NTLM and Negotiate authentication schemes are specific for which operating system</li> <li>A. iOs Operating System</li> <li>B. Windows operating system</li> <li>C. Linux Operating System</li> <li>D. Any Operating System</li> <li>Answer: B</li> <li>Page:134</li> </ul>
Q5.How many parts A JWT Consist?  A. 6 B. 5 C. 2 D. 3 Answer: D Page:135 (a header, a payload, and a signature)
Q6. Which symbol we use to separate consisting parts of JWT?  A. Dot(.)  B. @  C. #

D. * swer: A ge:135
7. The AddAuthentication and UseAuthentication methods are called before to handle thentication early in the pipeline. A. Any one B. UseMvc C. AddMvc and UseMvc D. AddMvc answer: C ge:137
B.The generateToken method uses A. Single variable B. Multiple variable C. Both D. None of them Answer: B ge:138
D. An interesting observation is that the same string is protected A. Two times B. One time C. Three times D. Four times Answer: D ge:142
0. SSL means?
A. Security socket layer B. Secure sockets layer C. Server sockets layer D. None of them Answer: B ge:145
1. The data-protection APIs provided by windows are great for securing sensitive data on deplication but are not suitable for
A. Windows application B. Android application C. Web application D. None of them Answer: C ge:140

# Chapter 09: Bells & Whistles

20 July 2019 Q1. HATEOAS stands for? A. Hypertext As The Engine Of Application State B. Hypertext As The Engine Of Application Stateless C. Hypermedia As The Engine Of Application State D. None of Above  Answer: C [Page: 156]
Q2. HATEOAS is aof the stateless application that allows a REST client to have no prior knowledge of how to interact with the server beyond a general understanding of hypermedia provided by the API.  A. class B. constraint C. event D. function  Answer: B  [Page: 156]
Q3. Which attribute is used to serialize the particular property to JSON?  A. Json B. JsonProperty C. JsonMedia D. None of above  Answer: B  [Page: 160]
Q4. What type of versioning must support by all APIs?  A. outlined  B. implicit  C. explicit  D. fixedTyped  Answer: C  [Page: 165]
Q5. Versions of APIs can be located in places. A. Two B. Three C. Four D. Five  Answer: C [Page: 165]
Q6. Which one of the following is a Version example as a query string parameter in the URL?  A. https://api.awesome.io/people?api-version=1.0  B. https://api.awesome.io/v1.0/people  C. GET /people HTTP/1.1  Host: api.awesome.io  api-version: 1.0

D. GET /people HTTP/1.1

Host: api.awesome.io

Accept: application/json;v=1.0

Answer: A [Page: 165]

- Q7. Which one of the following is a Version example as a URL segment in the URL?
  - A. https://api.awesome.io/people?api-version=1.0
  - B. https://api.awesome.io/v1.0/people
  - C. GET/people HTTP/1.1

Host: api.awesome.io

api-version: 1.0

D. GET /people HTTP/1.1 Host: api.awesome.io

Accept: application/json;v=1.0

Answer: B [Page: 165]

Q8. Which one of the following is a Version example as a part of a media type?

- A. https://api.awesome.io/people?api-version=1.0
- B. https://api.awesome.io/v1.0/people
- C. GET /people HTTP/1.1

Host: api.awesome.io

api-version: 1.0

D. GET/people HTTP/1.1

Host: api.awesome.io

Accept: application/json;v=1.0

Answer: D [Page: 165]

- Q9. Which package is used to add versioning to APIs in ASP.NET Core MVC?
  - A. Microsoft.AspNetCore.Mvc.Api.Versioning
  - B. Microsoft.AspNetCore.Mvc.Versioning
  - C. Microsoft.AspNetCore.Mvc.Version
  - D. None of Above

Answer: B [Page: 166]

- Q10. If we do not specify any version in the request what will happens?
  - A. it will be used as the latest version
  - B. it will be used as the previous version
  - C. nothing happens
  - D. none of above

Answer: A [Page: 168]

- Q11. To enable request-header versioning, which option need to set in the ConfigureServices method of the Startup class?
  - A. ApiVersion
  - B. ApiVersionReader
  - C. ApiVersionWriter
  - D. WebApiVersion

Answer: B [Page: 170]

#### Q12. What is Swagger?

- A. It is an open source framework that helps us design, build, document, and consume RESTful services
- B. It is used to group a set of logical operations with the same log information by using scopes
- C. It is used to specific logging configuration first needs to be added to the host
- D. None of Above

Answer: A [Page: 173]

Q13. To register the Swagger middleware, which extension method is used in the ConfigureServices of the Startup class?

- A. Add
- B. AddSwagger
- C. AddSwaggerGen
- D. AddSwaggerReg

Answer: C [Page: 177]

## Chapter 10: Testing & Debugging

#### 14 July 2019

Q1. which is the testing and debugging of the source code?

- A. API
- B. SOL
- C. HTML
- D. SignalR

Answer: A

[Page:185]

Q2. Which one has become an integral part of product quality assurance?

- A. Software testing
- B. Service testing
- C. Operation testing
- D. Uniq testing

Answer: A

[Page:185]

Q3. Which is the process of verifying?

- A. Debugging
- B. Parameter
- C. Testing
- D. None of the above

Answer: C

[Page:185]

Q4. Which is a process of developing software in the repetition of short iterations?

- A. TSD
- B. TDD
- C. CDA
- D. ADD

Answer: B

[Page:186]

Q5. Which one is derived from TDD and combines the techniques and principles of TDD?

- A. FDD
- B. CDA
- C. BDD.
- D. None of the above

Answer: C

[Page:186]

Q6. Which one is the meaning of OOD?

- A. object-oriented delivery
- B. object-oriented design
- C. object-oriented decision
- D. object-oriented debugging

Answer: B

[Page:186]
Q7 Which one is the meaning of DDD?  A. Domain-Driven-Domain B. Design-Driven-Domain C. Design-Driven-Design D. Domain-Driven-Design Answer: D [Page:186]
Q8 Which is a process of simulating third-party behavior to isolate the unit being tested?  A. Mocking B. Testing C. Debugging D. None of them  Answer: A [Page:192]
Q9 Which is mocking framework?  A. Moq  B. Test  C. Debug  D. None of them  Answer: A  [Page:193]
Q10 Moq encapsulates the mocked object as the Object property?  A. Moq Property B. Type Property C. Class Property D. Object Property Answer: D [Page:193]
Q11 Which one ensures that the components of an application work as expected when they are all put together?  A. Integration testing B. Unit testing C. Class testing D. Object Integration testing  Answer: A [Page:194]
Q12 If the source code and source symbols for a particular library are available, we are able to A. Test B. Compile C. Debug D. Run Answer: C [Page:199]

# Chapter 11: Hosting & Deployment

20 July 2019 Q1. the process of transferring an application to a host is referred to? A. Hosting B. Deployment C. Transport D. None Answer: B
[Page: 203]
Q2. IIS stands for? A. Internet Information Services B. Intranet Information Services C. Internet Installation Services D. Internet Isolation Services Answer: A [Page: 203]
Q3. Which commands we use to build and package the application for deployment?  A. run publish  B. build publish  C. deploy  D. dotnet publish  Answer: D  [Page: 207]
Q4. What is the default model for deploying .NET Core applications?  A. FDD  B. SDC  C. FFD  D. SSD  Answer: A  [Page: 207]
Q5. Which one is responsible for relaying the requests through to the application?  A. dotNet  B. DotNetCore  C. aspNetCore  D. None  Answer: C  [Page: 208]
Q6. Which one is a high-performance web server mainly used as a reverse proxy, load balancer, or HT cache?  A. xproxy B. Nginx C. Unix D. Utill

Answer: B

#### [Page: 210]

- Q7. Where we can host ASP.NET Core applications
  - A. Windows
  - B. Linux
  - C. Docker
  - D. All of above

Answer: D [Page: 212]

Q8. Look at the code below and specify what does -o option used for?

\$ dotnet publish -o ./publish

- A. Option for
- B. Output directory
- C. Output file type
- D. None

Answer: C [Page: 213]

Q9. Which command we use to initiate a local Git repository?

- A. git init
- B. repo init
- C. set git
- D. None

Answer: A [Page: 226]

# Modern Api Design with ASP.NET Core 2 Chapter 01: Api Design Demystified

- Q1. What is HATEOAS?
  - A. A part of Uniform Interface.
  - B. A constraint of the REST stateless application
  - C. allows a client to have no prior knowledge of how to interact with server.
  - D. All of Above

Answer: D [Ref. Page: 06]

- Q2. Caching can be Applied on...?
  - A. The client side
  - B. The server side
  - C. Both client and server side
  - D. None of above.

Answer: C [Ref. Page: 06]

Q3. Which one is true about caching?

- A. Allow client to reuse them when making similar request.
- B. Caching can be applied on both Client and Server side.
- C. It is derived from Stateless constraint.
- D. All of Above

Ans: D

[Ref. Page: 06]

- Q4. How many constraints we should apply to Api service to say it is truly RESTFUL?
  - A. 4
  - B. 6
  - C. 5
  - D. 3

Answer: B

[Ref. Page: 07]

Q5. REST stands for?

- A. Representational State Transfer
  - B. Representational Essential State Transfer
  - C. Represent States Transfer
  - D. None of above.

Answer: A [Ref. Page: 03]

- Q6. Which constraint enforces the proper separation of concerns between the UI and back-end?
  - A. Caching Constraints
  - B. Client Constraints
  - C. Stateless constraints
  - D. None of above.

Answer: B [Ref. Page: 06]

## Modern Api Design with ASP.NET Core 2 Chapter 02: Introduction to ASP.NET Core

- Q1. Which one is the successor to classic ASP?
  - A. ASP
  - B. PHP
  - C. ASP.NET Framework
  - D. All of Above

Answer: C [Ref. Page: 09]

- Q2. Which one is true about .NET Core?
  - A. It is extremely fast
  - B. multiple Languages are supported.
  - C. Open Source
  - D. All of above.

Answer: D [Ref. Page: 10]

- Q3. Which one is false about ASP.NET Core?
  - A. Dependency Injection is the first class citizen in the framework
  - B. It is more modular and lightweight.
  - C. It can be hosted everywhere.
  - D. none of above.

Answer: D [Ref. Page: 11]

- Q4. Which one acts as a container and is responsible for managing the lifetime of the application?
  - A. Middleware
  - B. dependency Injection
  - C. Application Host
  - D. Logging

Answer: C [Ref. Page: 13]

- Q5. What are the packages managers supported by visual Studio?
  - A. Nuget
  - B. NPM
  - C. Bower
  - D. None of above.

Answer: A,B,C

- Q6. Which Package manager is used for client-side libraries?
  - A. Nuget
  - B. NPM
  - C. Bower
  - D. None of above.

Answer: C [Ref. Page: 15]

- Q7. What are the advantages of visual Studio?
  - A. It supports Almost all popular packages
  - B. Easy to work with the cloud by integrating directly with Microsoft Azure
  - C. debugging a wide range of languages like C#,F#,Python.
  - D. None of above.

Answer: A, B, C

[Ref. Page: 15]

Q8. Which Model allows us to create great add-ons for visual Studio?

- A. Extension
- B. Atom
- C. NPM
- D. None of above.

Answer: A

[Ref. Page: 16]

Q9. How many different editions does visual studio 2017 provide?

- A. 1
- B. 2
- C. 3
- D. 4

Answer: C

[Ref. Page: 15]

Q10. Which one helps to solve loose coupled component

- A. DI
- B. Middleware
- C. logging
- D. None of above.

Answer: A

[Ref. Page: 13]

## Chapter 03: Your First Api AppliCation

#### 19 April 2019

Q1. which the Run and Use methods define Request Delegates is significant, as the runtime will execute each layer in precisely the same order as it was created?

- A. The first layer checks the request path of the incoming request
- B. The Second layer checks the request path of the incoming request
- C. Application state
- D. None of the above

Answer: A [Page no-35]

Q2. Which code request show no result found?

- A. 400
- B. 404
- C. 202
- D. 201

Answer: B [Page no-35]

- Q3. Which are more appropriate for working with endpoints?
  - A. Map and MapWhen methods for implementing the /foo and PUT /bar endpoints
  - B. Map and MapWhen methods for implementing the /foo and POST /bar endpoints
  - C. Map and MapWhen methods for implementing the /foo and GET /bar endpoints
  - D. None of the above

Answer: B [Page no-35]

- Q4. API endpoints are nothing more than \_\_\_\_\_being executed in a specific order?
  - A. middleware.
  - B. Endpoint
  - C. Startpoint
  - D. All

Answer: A [Page no-34]

- Q5. When using UseStartup for determining bootstrapping configurations in a separate class?
  - A. creating the web host.
  - B. overrides the configuration
  - C. Updating the web Host.
  - D. Deleting the web Host.

Answer: A, B

[Page-33]

Q6. How many types of ASP. Net Application?

A. B. C. D. Answe Page	3 5 4 er: A
A. B. C.	
A. B. C.	
Function A.B.	by calling the IAppBuilder function by calling the BuildWebHost function by calling the IConfiguration function by calling the StartUp function er: B
A. B. C.	
requir A. B. C.	

Q12. What is the meaning of IoC?

A. Identity of Control

B. Inspection of Controller

- C. Inversion of Control
- D. ICollection of Controversy

Answer: C [Page-31]

Q13. The startup class is defined as \_\_\_\_\_

- A. System.StartUp.
- B. HttpStartUp.
- C. UseStartUp
- D. IStartUp

Answer: C [Page-34]

# **Modern API Design with ASP.NET Core** Chapter 04: Extensibility Architecture

Q1. Extensibility is	one of the critical	features of	ASP.NET	Core as	it allows f	or which	system
architecture?							

- A. Non-pluggable
- B. pluggable
- C. None
- D. Both A & B

Answer: B [Page:37]

Q2. RESTful APIs deliver resources located on a specific URI, which can be driven

by.....

- A. Routing
- B. Host
- C. Server
- D. Extension

Answer: A [Page:37]

Q3. In the RESTful architecture, whose concept plays a vital part?

- A. Hosts
- B. Servers
- C. Hosts and Servers
- D. Routine

Answer: C [Page:37]

Q4. In ASP.NET Core, Which one is responsible for the bootstrapping, initialization, and lifetime management of applications.?

- A. Server
- B. Host
- C. NPM
- D. Js

Answer: B

[Page:37]

Q5. To run a web application, it requires a host with how many server for serving requests and responses?

- A. Two
- B. Three
- C. Unlimited

D. At least one

Answer: D [Page:37]

- 6. The ...... provides built-in functionality to configure the application configuration model.
  - A. IWebHostBuilder
  - B. UseSettina
  - C. UseContentRoot
  - D. None of these.

Answer: A [Page:37]

7. When calling UseSetting, it is important to remember that the provided value will be persisted as

a\_\_\_\_\_.

- A. int value
- B. boolean value
- C. C.double value
- D. string value

Answer: D [Page:38]

8. When something goes wrong during the startup of the application, the default behavior will result in the host's exiting. We can control this by calling...

- A. CaptureStartupErrors
- B. IWebHostBuilder
- C. UseContentRoot.
- D. None of those

Answer: A [ Page:38 ]

9. For which setting the host is fail to start?

- A. IWebHostBuilder
- B. CaptureStartupErrors
- C. UseContentRoot
- D. Server

Answer: C

[page:38]

10. By default, ASP.NET Core 2.0 includes how many built-in servers?

- A. Two
- B. Four
- C. Five
- D. Three

Answer: A

[page:39]

11. Kestrel, a cross-platform HTTP server based on what?

- A. kernel
- B. Libuv
- C. A & B
- D. None

Answer: B

#### [Page:39]

- 12. HTTP.sys, a Windows-only server based on the...... driver.
  - A. A.HTTP.sys kernel
  - B. Libuv
  - C. HTTP
  - D. API

Ans: A

[Page:39]

- 13. When using a reverse proxy, the requests are first handled by.......
  - A IIS
  - B. Nginx.
  - C. C.A & B
  - D. the reverse proxy server

Ans: D

[Page:39]

- 14. If we tell the web host to work behind IIS, then which extension we use?
  - A. UsellSIntegration
  - B. pluggable
  - C. Routine
  - D. None

Answer: A

[Page ref:40]

- 14. If we call AddSingleton<TInterface, TService>() multiple times with the same TInterface then what is happen?
  - A. the last TService registered will override the previous.
  - B. the first TService registered will override the previous.
  - C. the first TService registered will override the first.
  - D. Nothing will happen

Answer: A

[Page ref:42]

- 15. Which one is third party server?
  - A. FooServer
  - B. Nginx
  - C. IIS
  - D. Kestrel

Answer: A

[Page ref:41]

- 16. To create our custom server, which one we simply need to implement?
  - A. Kestrel
  - B. IServer
  - C. Nothing
  - D. Kestrel and IServer

Ans: B See at page 41 line:6

- 17. The components that are assembled within the application request pipeline are called......
  - A. Routing
  - B. IServer
  - C. API
  - D. middleware

Answer: D

See at page: 49 [line no:4]

- 18. A hosted service provides a mechanism for running background tasks within the..... scope of the application.
  - A. a moment
  - B. two months only
  - C. lifetime
  - D. two days

Ans: C

[see at page:57]

- 19. In ASP.NET Core, Which one provides interface for creating hosted services.
  - A. the IHostedService
  - B. IServer
  - C. middleware
  - D. Routing

Answer: A

[see at page:57.]

- 20. By injecting the IHostingEnvironment, we can get the content root path where the folder resides?
  - A. View
  - B. App\_Start
  - C. App
  - D. wwwroot

Answer: D

[See at Page:59]

#### Chapter 05: MVC

	20	Aug	gust	20	19
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Q1.	For	impl	lemen <sup>-</sup>	ting '	web	appl	icatic	ns	with	user	inter	faces	which	า รด1	ftware	design	patte	rn we
sho	ould	use?	1															

- A. Model View Controller (MVC)
- B. Model View View Controller(MVVM)
- C. Action Server Page (ASP)
- D. None

Answer: A Page:619

Q2 Which one is the main entry point and handle requests initiated from user's interaction?

- A. Action
- B. Controller
- C. View
- D. Route

Answer: B

Page:62

Q3. Web API was designed to provide data responses, mainly as \_\_\_\_\_formats.

- A. XML
- B. JSON
- C. UML
- D. XML and JSON

Answer: D

Page:62

Q4. During the development of ASP.NET Core, it was initially called \_\_\_\_\_

- A. ASP.NET 5
- B. MVC
- C. ASP.NET vNext
- D. MVVM

Answer: C

Page:64

Q5. By default, where the controller classes reside in?

- A. Model Folder
- B. Controllers Folder
- C. App\_Data Folder
- D. View Folder

Answer: B

Page:65

Q6. POCO defines as?

- A. Plain Old CLR Object
- B. Plain Order CLR Object
- C. Plain Old Command object

D. Plain Common Order Answer: A Page:65
Q7. Which HTTP status code we use for OK?  A. 204  B. 206  C. 404  D. 200  Answer: D
Answer. D
Q8. When the ModelState Property is not available directly?
A. When using POCO Controller Classes.
B. When using PCO Controller Classes.
<ul><li>C. When using usual Controller Classes.</li><li>D. When using Home Controller Class.</li></ul>
Answer: A
Page:83
Q9. How many ways of defining routes for an MVC application?
A. 3
B. 2 C. 4
D. 1
Answer: B
Page:70
Q10. We can make use of the extension method to add application parts from a given assembly during runtime  A. CSVOutputPart  B. AddApplicationPart
C. FlushAsyncPart
D. OutputFormattersPart
Answer: B
Page:93

# Chapter 06: The Configuration Model

14 July 2019 Q1. which one need for almost application? A. Model data B. View data C. Configuration data D. None of the above Answer: C [Page:95]
Q2. We make our code much more reusable and can quickly alter the way it works without our having to thin about it.  A. By Using Model B. By Using Data C. By Using Controller D. By Using Configuration  Answer: D  [Page:95]
Q3. Where Configuration data should live?  A. Outside the application B. Inside the application C. Middle of the application D. None of the above  Answer: A  [Page:95]
Q4. ASP.NET Core provides a configuration API for working with configurations in web apps that is based or a collection of?  A. key-value pairs  B. name-value pairs  C. object-value pairs  D. None of the above  Answer: B  [Page:95]
Q5. Configuration data can be read during runtime from multiple sources and are grouped into a
A. single-level hierarchy B. random-level hierarchy C. multi-level hierarchy. D. None of the above Answer: C [Page:95]
Q6. we can override specific configurationscontaining the new configuration values.  A. by reducing another file

C. by adding another file D. None of the above Answer: B [Page98]
Q7 Which are responsible for passing the configuration in a specific format from a pre-defined source to the configuration model of ASP.NET Core.?  A. Controller provider  B. Design provider  C. Data providers  D. Configuration providers  Answer: D  Page:99]
Q8 A configuration can be loaded from  A. many different sources B. a single sources C. Two sources D. Three sources Answer: A [Page:99]
Q9 Which are used mainly for development purposes to prevent the check-in of sensitive files into source control that contain required configuration data?  A. User Control  B. Admin Control  C. User Secrets  D. Admin Secrets  Answer: C  Page:101]
Q10 Moq encapsulates the mocked object as the Object property?  A. Moq Property B. Type Property C. Class Property D. Object Property Answer: D Page:193]
Q11 Where We can manually add or modify values ?  A. Secret.Json B. Jequery.Json C. Node.Json D. Admin.Json Answer: A [Page:102]
Q12 To install the Secret Manager tool, we need to open the?  Acshtml file Bcsproj file Ccs file Djs file Answer: B

#### [Page:102]

Q13 Which one we can use to store confidential data securely in the cloud?

- A. ASP Key Vault
- B. API Key Vault
- C. WCF Key Vault
- D. Azure Key Vault

Answer: D [Page:102]

Q14 When configuration data may change?

- A. In the browser
- B. At debugging time
- C. During runtime
- D. Package Installation time

Answer: C [Page:110]

# Chapter 07: Logging and Error Handling

14 August 2019 Q1. Logs can contain System-generated events as well as events explicitly defined by the developer and are usually grouped into?  A. Two categories B. Three categories C. Four categories
D. Five categories Answer: B
Page:113
Q2. Application logs are application specific, hence the name, and do not often includeevents?
<ul><li>A. IO-Specific</li><li>B. MS-Specific</li><li>C. OS-Specific</li><li>D. None of Them</li></ul>
Answer: C Page:113
Q3. How many built in logging providers of ASP.Net Core?
A. Three B. Four C. Five D. Six Answer: D Page:113
Q4. Before logging can be used, the specific logging configuration first needs to be added to the
<ul><li>A. Project</li><li>B. Namespace</li><li>C. Host</li><li>D. Class</li></ul>
Answer: C

Q5. Typically, validation and general errors that are handled are commonly classified as a\_\_\_

Page:114

A. Information

B. Trace

- C. Error Log
- D. Warning

Answer: D Page:119

Q6. Filters can work\_\_\_\_

- A. Specify minimum levels
- B. Special conditions
- C. Both way
- D. None

Answer: C Page:124

#### Q7. ETW Means

- A. Event Tracing for Windows
- B. Event Token for Windows
- C. Environment Tracing for Windows
- D. None of them

Answer: A Page: 126

- Q8. When making a request, the HTTP mechanism always provides a status code with the response. Which status codes include the used for informational purposes.
  - A. 3xx-series
  - B. 1xx-series
  - C. 2xx-series
  - D. 4xx-series

Answer: B Page:128

- Q9. When making a request, the HTTP mechanism always provides a status code with the response. Which status codes are Server Errors.
  - A. 2xx-series
  - B. 3xx-series
  - C. 4xx-series
  - D. 5xx-series

Answer: D Page:128

- Q10. By default, ASP.Net Core application do not provide any other details on status codes, but we can enable these details by using the
  - A. StatusCodePagesMiddleware
  - B. EventLogSettings
  - C. StatusCode
  - D. BuildWaitAssync

Answer: A Page:129