### Chapter 02

- Q1. What is WebAssembly?
  - A. A binary format optimized for browser execution
  - B. The render tree built on the server using regular .NET and serialized to the browse
  - C. What are roles of Serve, Client and Shared project in Blazor web assembly app?
  - D. A new ECMA based script capable of executing .NET language instructions

### Answer: A

- Q2. Which one does a Web Assembly App **not** allow?
  - A. Call to JavaScript methods
  - B. Run as a Progressive Web Application (PWA).
  - C. use all the .NET APIs you would use with regular ASP.NET Core MVC applications
  - D. None of the above

### Answer: C

[Blazor Server app can access all .net API. But wasm does]

- Q3. Which one does a Web Assembly App not allow?
  - A. Call to JavaScript methods
  - B. Run as a Progressive Web Application (PWA).
  - C. All modern debugging capabilities
  - D. None of the above

### Answer: C

[Blazor wasm runs on browser, not all debugging is available]

Q4. Which instructions add blazor middlewire that serves required special files to client to blazor application?

- A. MapFallbackToFile
- B. UseBlazorFrameworkFiles
- C. UseWebAssemblyDebugging
- D. MapRazorPages

### Answer: B

- Q5. Which script tag should you use to install Blazor by downloading dotnet.wasm?
  - A. <script src="\_content/blazor.webassembly.js"></script>
  - B. <script src="\_framework/blazor.webassembly.js"></script>
  - C. <script src="\_js/blazor.webassembly.js"></script>
  - D. <script src="\_blazor.webassembly.js"></script>

### Answer: B

- Q6. Which component install the router component in Blazor wasm application.
  - A. MainLayout
  - В. Арр
  - C. NavLink
  - D. The fallback file Index.html

- 06. What is Hot Reload?
  - A. The feature that allows you to debug Blazor wasm app
  - B. The feature that enhance downloading wasm to client

- C. The feature with .Net 6 that update running your application as soon as you make changes to your code and markup
- D. None of the above

Answer: C

- Q7. Which command in dotnet cli do you use to start hot reload?
  - A. dotnet start
  - B. dotnet run
  - C. dotnet watch
  - D. dotnet debug

Answer: C

- Q8. Which statement uses a null forgiving operator?
  - A. string? name = null;
  - B. string? name = default;
  - C. string? name = null!;
  - D. string name = default;

Answer: C

Q9. Consider the code

string []? cities;

Which code will produce errors?

- A. Console.WriteLine(cities.Length);
- B. Console.WriteLine(cities?.Length);
- C. if(cities is not null) Console.WriteLine(cities.Length);
- D. if(cities!= null) Console.WriteLine(cities.Length);

Answer: A

# Chapter 03, 04 O1. Any class that derives from the

QT. Ar	Any class that derives from the	class becomes a Blazor component?
A.	A. Page	
В.	3. Component	
C.	C. ComponentBace	
D.	D. ControllerBase	
Answe		
Q2. Ea	Each razor file in Blazor is a?	
	A. Component	
	3. Page class instance	
	C. AppComponent	
	D. LayoutComponent	
Answe		
	What does a Blazor component contain?	
	A. Only markup	
	3. Only code	
	C. Both markup and code	
	D. Either markup or code	
Answe		10
	What should you do to pass data to a componen	[
	A. Component parameter	
	3. @inject directive	
	C. using Component construction	
	D. by injecting service Parent and child components typically communic	poto through
	A. by injecting service	late through
	B. data binding	
	C. through dependency injection	
	D. event callback	
ے. Answe		
	Why is a component parameter used?	
	A. Parent component pass data to a child comp	onent using component parameter
	B. Parent component handles child component	
	C. Parent component detect changes through o	
	D. None of the above	
Answe		
	How can you manually trigger the UI to update?	
	A. There is no way to trigger update, the Blazor r	runtime updates the UI automatically when ar
	event triggers, like the button click	
В.		
C.		
D.	D. None of the above	

Answer: B

Q6. What is the use of EventCallback<T>?

- A. To pass data to a component
- B. To detect changes of component parameter
- C. To trigger UI update
- D. For parent-child communication, such as events and two-way data binding

### Answer: D

- Q7. What should be used to expose events across components?
  - A. Event
  - B. Component parameter
  - C. EventCallback
  - D. Two-way data binding

### Answer: C

- Q8. Which one is used to call a parent component's method from a child component?
  - A. Event
  - B. Component parameter
  - C. EventCallback
  - D. Two-way data binding

#### Answer: C

- Q9. What do you use when you require a reference to an HTML element or Blazor component?
  - A. @bind
  - B. @bind-Value
  - C. @ref
  - D. @id

### Answer: C

- Q10. Which one is to when a higher-level component needs to share some data with a deeper nested component?
  - A. Parameter
  - B. Data-binding
  - C. Cascading Parameters
  - D. All of the above

#### Answer: C

- Q11. When a component's OnInitialized/OnInitializedAsync life cycle hook method are called?
  - A. After component has been created and the parameters have been set
  - B. After component has been created but before the parameters have been set
  - C. Before component has been created and the parameters have been set
  - D. After the parameters have been set but before component has been created

### Answer: A

- Q12. Which life cycle method should you use to invoke JavaScript code that needs access to elements from the DOM?
  - A. OnInitialized/OnInitializedAsync
  - B. OnParametersSet/OnParametersSetAsync
  - C. OnAfterRender/OnAfterRenderAsync
  - D. ShouldRender

### Answer: C

- Q13. Which component type allows you to pass one or more UI templates as parameters?
  - A. Layout component
  - B. Templated component
  - C. Normal Blazor component
  - D. All of the above

Q14. A	represents a segment of UI to render				
A.	render fragment				
B.	component				
C.	cascading parameter				
D.	data-binding				
Answer: A					
Q15. The pig-wig syntax starts with					
A.	@:				
B.	@{:				
C.	@:@{				
D.	@@				
Answe	r: O				

### Chapter 05

- Q1. What is the role of a Service object's role?
  - A. encapsulate specific business rules or how data is communicated between the client and the server
  - B. handle user request and trigger an action on the server
  - C. persist data for a view
  - D. pass data to a component

### Answer: A

- Q2. What is the role of An Inversion-of-Control Container (IoCC)?
  - A. specializes in creating objects that is passed through Dependency injection
  - B. encapsulate specific business rules or how data is communicated between the client and the server
  - C. persist data for a view
  - D. handle user request and trigger an action on the server

### Answer: A

- Q3. Which is a constructor Dependency injection?
  - A. public class AService { public AService(Dependency dep){...}}
  - B. [Inject] public IProductsService ProductsService { get; set; }
  - C. @inject | ProductsService ProductsService
  - D. public class AService { Dependency dep = new Dependency();}

### Answer: A

- Q4. Which is a property Dependency injection?
  - A. public class AService { public AService(Dependency dep){...}}
  - B. [Inject] public IProductsService ProductsService { get; set; }
  - C. public IProductsService ProductsService { get; set; }
  - D. public class AService { Dependency dep = new Dependency();}

### Answer: B

- Q5. Which is a constructor Dependency injection?
  - A. public class AService { public AService(Dependency dep){...}}
  - B. public IProductsService ProductsService { get; set; }
  - C. @inject | ProductsService ProductsService
  - D. public class AService { Dependency dep = new Dependency();}

### Answer: C

- Q6. What is a Singleton Dependency?
  - A. classes that only have one instance
  - B. classes that has instance per scope but uses new instances between different scopes
  - C. Instance of classes which are short lived, which might not even survive beyond a single method call.
  - D. None of the above

### Answer: A

- Q7. What is a scoped Dependency?
  - A. classes that only have one instance
  - B. classes that has instance per scope but uses new instances between different scopes

- C. Instance of classes which are short lived, which might not even survive beyond a single method call.
- D. None of the above

Answer: B

Q8. What is a Transient Dependency?

- A. classes that only have one instance
- B. classes that has instance per scope but uses new instances between different scopes
- C. Instance of classes which are short lived, which might not even survive beyond a single method call.
- D. None of the above

Answer: C

### Chapter 06, 07

- Q1. Which one is not true for REST?
  - A. REST is built on top of the HTTP protocol
  - B. REST invokes actions on servers
  - C. REST can retrieve data from server
  - D. REST only uses GET and POST http verbs

### Answer: D

- Q2. With \_\_\_\_\_, you CREATE something on a server
  - A. POST
  - B. GET
  - C. PUT
  - D. DELETE

### Answer: A

- Q3. With \_\_\_\_\_, you READ data back from a server
  - A. POST
  - B. GET
  - C. PUT
  - D. DELETE

### Answer: B

- Q4. With \_\_\_\_\_, you UPDATE something on the server.
  - A. POST
  - B. GET
  - C. PUT
  - D. DELETE

### Answer: C

- Q5. What are HTTP headers?
  - A. Instruction to work with data stored in a database
  - B. a status code about the result.of a request
  - C. instructions exchanged between the client and the server.
  - D. type of data is sent to client from the server

### Answer: C

- Q6. What does the HttpClient Class do?
  - A. host Web API controller
  - B. acts as a loCC container for services
  - C. communication between the client and server passes through the HttpClient class
  - D. serializes server sent data as Jason objects

### Answer: C

- Q7. What does HttpClientJsonExtensions methods do?
  - A. exposes server data to client
  - B. converts between .NET objects and JSON
  - C. allows client to create JSON objects easily
  - D. applies authorization to data access

### Answer: B

Q8. Why do you use the GetFromJsonAsync extension method?

- A. extracts JSON object from a HttpResponse object's body asynchronously
- B. serialize .NET object as JSON in the request body to the specified URI.
- C. makes an asynchronous GET request to the specified URL
- D. converts between .NET objects and JSON

### Answer: C

- Q9. What is required for Customizing JSON Serialization?
  - A. System.Text.JsonSerilizer
  - B. JsonSerializerOptions
  - C. JSON converter
  - D. JSON options

### Answer: B

- Q10. How can you easily switch implementation of the service type required in your component?
  - A. Using .Net reflection API
  - B. using dependency injection.
  - C. Using generic service
  - D. Using microservice

A. @layoutB. @defaultLayout

## Chapter 08

enapter 50
Q1. What is a Single-Page Web Application?
A. a web application that replaces certain parts of the UI without reloading the complete page.
B. a web application that can run offline once loaded in a browser
C. a web application that is independent from a server.
D. a web application that runs only over secure connection
Answer: A
Q2. SPAs useto implement this manipulation of the browser's control tree, also known
as the Document Object Model (DOM).
A. jQuery
B. JavaScript
C. WebSocket
D. Angular or react libraries
Answer: B
Q3. What do you use in the Blazor application for UI elements that you can find on every page, such
as a header, footer, copyright, menu, etc?
A. Component
B. Layout Component
C. Layout page
D. Master page
Answer: B
Q4 Blazor Layout Components inherit from
A. ComponentBase
B. LayoutComponentBase
C. Page
D. ControllerBase
Answer: B
Q5. Anything you can do with a regular component you can do with a layout component.
A. True
B. False
Answer: A
Q6. A component can change the layout component for itself?
A. True
B. False
Answer: A
Q7. In which component file, the Default Layout Componen is configured?
A. App.razor
BImports.html
C. Index.html
D. Layout.razor
Answer: A
Q8. Which directive is used to set a Layout for a component?

- C. @master
- D. Quse

Answer: A

- Q9. Single-Page Applications use \_\_\_\_\_to select which component gets picked to fill in the layout component's Body property?
  - A. routing
  - B. NavigationManager
  - C. NavLink
  - D. route constraint

Answer: A

Q10. What is a route template?

- A. A route template is a string matching a URI, and that can contain parameters, which you can then use in your component.
- B. A route template template is string pattern to match controller and action
- C. A route template that a component use help locations itself.
- D. None of the above

Answer: A

- Q11. What is used to limit the type of parameter to match.?
  - A. Route parameter
  - B. Route data
  - C. Route constraints
  - D. Route pattern

Answer: C

- Q12. Which one is not a valid route constraint?
  - A. datetime
  - B. decimal
  - C. guid
  - D. currency

Answer: D

### Chapter 09

- Q1. What is the condition of the javascript function so that it can be called from .NET code?
  - A. the function must be JSON serializable.
  - B. the arguments the function accepts must be JSON serializable
  - C. the function must return .JSON serializable type
  - D. All of the above

Answer: B

- Q2. What is required to call a JavaScript function?
  - A. IJSObjectReference
  - B. IJSRuntime
  - C. blazor.webassembly.js
  - D. JavaScript modules

Answer. B

- Q3. You use the .NETIJSRuntime instance \_\_\_\_\_\_
  - A. by call default constructor
  - B. provided through dependency injection
  - C. provided factory service
  - D. dynamically using .NET reflection

Answer: B

- Q4. To call JavaScript functions synchronously, you need \_\_\_\_\_
  - A. IJSRuntime
  - B. IJSObjectReference
  - C. IJSInProcessRuntime
  - D. JsonSerializer

Answer: C

- Q5. What are methods exposed by IJSRuntime?
  - A. InvokeAsvnc<T>
  - B. InvokeVoidAsync
  - C. InvokeVoidAsvnc<T>
  - D. Invoke<T>

Answer: A, B

- Q6. If your JavaScript needs to access one of your HTML elements, what should you do?
  - A. give the element an id attribute, pass it the id to the function
  - B. store the element in an ElementReference and then pass this ElementReference to the function
  - C. pass the function a dom query selector and in the function user the selector to find the function
  - D. All of the above

- Q7. In which lifecycle method you should pass an ElementReference to a JavaScript function?
  - A. OnInitialized/OnInitializedAsync.
  - B. OnParametersSet/OnParametersSetAsync
  - C. OnAfterRender/OnAfterRenderAsync
  - D. Any one of the above

Answer: C

- Q7. With Blazor, You can call .NET methods from JavaScript.
  - A. True
  - B. False

Answer: A

Q8 To call a .NET method from javascript what should you do?

- A. Decorate the method with the Serializable attribute
- B. Decorate the method with the JSON attribute
- C. Decorate the method with the JSInvoke attribute
- D. Decorate the method with the Inject attribute

Answer: C

- Q9. What should be the type parameter in the Invoke Async < T > method of IJSR untime when loading a JavaScript module dynamically?
  - A. IJSRuntime
  - B. IJSObjectReference
  - C. IJSInProcessRuntime
  - D. JsonSerializer

Answer:B

Q10. What is required for Blazor components to call a javascript method using the IJSRuntime.InvokeAsync<T>?

- A. register a JavaScript glue function by adding this function in isolated javascript file of the component
- B. register a JavaScript glue function by adding this function to the browser's window global object
- C. using import bind the function in the component scope
- D. All od the above

Q1. What kind of data does Blazor store in the browser's memory?

B. Component's fields and properties

## Chapter 10, 11

A. Render tree.

		Dependency injection instances All of the above
Ans		
Q2.	Wł	nere you should <b>not</b> store data so that it does not get lost, even after a browser refresh?
		browser's memory
	В.	local storage
	C.	server
	D.	URL
Ans	swe	er: A
Q3.	Wh	nich data store will fail if the user switches to a different browser?
	Α.	browser's memory
	В.	local storage
	C.	server
	D.	URL
Ans	swe	er: B
Q4.	Da	ta stored in the URL will survive a browser refresh and work across different browsers.
	Α.	True
	В.	False
Ans	swe	er: A
Q5.		is the process of making an application support a range of languages.
	1.	Internationalization
	2.	Localization
	3.	Culture
	4.	Regionalization
Ans	swe	er: A
Q6.	Int	ernationalization is often abbreviated as
	Α.	118n
		L10n.
	C.	G10n
	D.	None
Ans		
		is the process (probably repeated several times) to make the application support a
		c language or locale
		Internationalization
	В.	Localization
	C.	Culture
		Regionalization
Ans		
Q8.		calization is often abbreviated as
	Α.	l18n

- B. L10n.
- C. G10n
- D. None

### Answer: B

Q9. In .NET programs, where the user's locale is stored?

- A. in an instance of the CultureInfo class
- B. in an instance of the RegionInfo class
- C. in an instance of the IdentityUser class
- D. in an instance of the UserProfile class

### Answer: A

Q10. A locale string composed of \_\_\_\_\_.

- A. two lowercase characters to represent the language and the country
- B. two lowercase characters to represent the language and two/three uppercase characters to represent the country
- C. two lowercase characters to represent the language a hyphen, and two/three uppercase characters to represent the region
- D. two lowercase characters to represent the language, a hyphen, and two/three uppercase characters to represent the country

#### Answer: D

[en-US, en-UK, bn-BD]

Q11. Why is the use of CurrentCulture?

- A. used by runtime for formatting values
- B. used by runtime for lookup the values from resource file
- C. used by runtime for setting language
- D. used by runtime for finding user geolocation

### Answer: A

Q12. Why is the use of CurrentUlCulture?

- A. used by runtime for formatting values
- B. used by runtime for lookup the values from resource file
- C. used by runtime for setting language
- D. used by runtime for finding user geolocation

## Chapter 12

Chapter 17
Q1. To identify the user is known as
A. Authentication.
B. Authorization
C. Identity
D. Token
Answer: A
Q2. To protect certain resources is known as
A. Authentication.
B. Authorization
C. Identity
D. Token
Answer: B
Q3. Which type of security uses a token to represent the user?
A. Claim-based security
B. Identity security
C. Integrated security
D. Anonymous security
Answer: A
Q4. Modern applications using REST use the open standard.
A. OAuth open standard
B. JSON Web Token (JWT)
C. Grant Token open standard
D. None of the above
Answer: B
Q5. Serialized JWT token consists of
A. three parts
B. four parts
C. five parts
D. six parts
Answer: A
Q6. Which one does a JWT Token base-64 string not contain?
A. a header
B. a payload
C. an optional footer
D. a signature
Answer: C
Q7. What is OpenId Connect?
A. a framework for building application for multiple devices
B. a cloud-based database
C. a standard protocol that allows us to secure our applications, including websites, mobil
applications, server,
D. a open standard for representing data
Answer: C