

Programming ASP.NET Core

Chapter 02: The First ASP.NET Core Project

14 July 2019

Q1. Which of the following programming model is/are supported by ASP.NET Core?

- A. ASP.NET Web forms
- B. Web Api
- C. ASP.NET MVC
- D. OData api

Answer: B

[ASP.NET Core has a brand-new runtime environment that supports a single application model—ASP.NET MVC. This means that the new web framework has nothing like Web Forms and even nothing exactly like Web API]

Q2. Which of the following files are not found in ASP.NET Core that you usually use in non-condensing ASP.NET applications?

- A. Web.config
- B. Global.asax
- C. OWIN Startup
- D. .cshtml Content files

Answer: A, B

Q3. Which unique file is used only in ASP.NET Core applications and not supported other classic ASP.NET applications?

- A. Program.cs
- B. Startup.cs
- C. Web.config
- D. Global.asax

Answer: A

Q4. Which file contains the code that hosts and runs ASP.NET Core applications?

- A. Program.cs
- B. Startup.cs
- C. Web.config
- D. Global.asax

Answer: A

Q5. Which one is the base path for any static files that the ASP.NET Core applications?

- A. Project root folder
- B. wwwroot folder
- C. views folder
- D. views/shared folder

Answer: B

Q6. Which one launches ASP.NET Core Applications?

- A. IIS Web server
- B. dotnet driver tool

-
- C. HTTP Extension module
 - D. OWIN middleware

Answer: B

Q7. Which class is responsible for building a fully configured instance of a valid ASP.NET Core host?

- A. A class that implements IConfiguration interface
- B. IIS Worker process
- C. **WebHostBuilder**
- D. The default cross-platform ASP.NET embedded web server named Kestrel

`public class WebHostBuilder :
Microsoft.AspNetCore.Hosting.IWebHostBuilder`

Answer: C

Q8. Which extension method of the WebHostBuilder instance instructs the host about the embedded web server to use?

- A. UseIISIntegration()
- B. **UseKestrel()**
- C. UseStartup<T>
- D. Build ()

Answer: B

Q9. Which method of the Startup class is used to add in the dependency injection mechanism?

- A. Configure
- B. **ConfigureServices**
- C. Run
- D. Build

Answer: B

Q10. Which method of the Startup class you use to specify the list of valid routes if you want to use the ASP.NET MVC service?

- A. **Configure**
- B. ConfigureServices
- C. Run
- D. Build

Answer: A

Q11. Which method of the IServiceCollection argument the ConfigureServices method in the Startup class do you use to make available a certain service?

- A. UseXXX
- B. **AddXXX**
- C. SetXXX
- D. GetXXX

Answer: B

Q12. Which method should you use to configure DI if you want that the caller receives a freshly DI-created instance of the specified type?

- A. **AddTransient**
- B. AddSingleton
- C. AddScoped
- D. Add

`AddSingleton-> first time after application startup
AddScope->received the same instance create at the beginning of the
req processing.`

Answer: A

Q13. Which method of the `IApplicationBuilder` argument of the `Configure` method of the `Startup` class do you use to enable retrieval of static files such as HTML pages, images, JavaScript files, or CSS files?

- A. `UseDefaultFiles()`
- B. `UseDirectoryBrowser()`
- C. `UseStaticFiles()`
- D. `UseKestrel()`

Answer: C

Chapter 03

Q1. What is the url of an incoming request in ASP.NET Model-View-Controller (MVC) application model resolved to?

- A. a pair of model/view
- B. a pair of controller/action
- C. a pair of controller/model
- D. a pair of model/binder

Answer: B

Q2. How is an incoming request in an ASP.NET Model-View-Controller (MVC) application served?

- A. By processing a Razor page
- B. By executing a code behind mixed with razor templates
- C. executing the given action method of the given controller class
- D. None of the above

Answer: C

Q3. Which one the MVC route the engine is **not** responsible for?

- A. resolving the URL to an MVC route
- B. invoking the selected controller method
- C. processing a view template and producing html
- D. processing the results of the action

Answer: C

[View processing is done by the view engine]

Q4. How do you add the MVC route handler service to the ASP.NET core application host?

- A. Call the `UseMvc` method in the `Configure` method of the startup class
- B. Call the `UseMvcCore` method in the `Configure` method of the startup class
- C. Call the `AddMvc` method the `ConfigureServices` method of the startup class
- D. Call the `AddMvcCore` method the `ConfigureServices` method of the startup class

Answer: C

Q5. Why do you call the `UseMvc` method in the `Configure` method of the startup class?

- A. To add the MVC route handler service to the ASP.NET host
- B. To configure the ASP.NET Core pipeline to support the MVC application model
- C. To supply the list of services to enable
- D. All of the above

Answer: B

Q6. What is a route in an ASP.NET MVC application?

- A. A rule to map an incoming request to a server resource
- B. A mechanism to support search engine friendly URL
- C. A URL template that your application can recognize and determine the controller and action names
- D. None of the above

Answer: C

Q7. You configured default route using the code

```
app.UseMvcWithDefaultRoute();
```

Which one is exactly the same as the above?

- A. `app.UseMvc();`
- B. `app.UseMvc(routes => { });`
- C. `app.UseMvc(routes => { routes.MapRoute(name: "default", template: "{controller=Home}/{action=Index}/{id?}"); });`
- D. All of the above

Answer: C

Q8. Which statement do you use to configure conventional route?

- A. `UseMvc();`
- B. `UseMvcWithDefaultRoute();`
- C. `UseMvc (routes=> { });`
- D. `UseMvc (null);`

Answer: B

Q9. What does the ? symbol signify in the following route template?

template: "{controller=Home}/{action=Index}/{id?}"

- A. The id parameter should be ignored
- B. The id parameter optional
- C. The id parameter must be supplied in the url
- D. If the id parameter is not present a default value should be used

Answer: B

Q10. How do you set restrictions on a particular route parameter of a route such as acceptable values or required type in ?

- A. Using the `dataTokens` argument
- B. Using the `constraints` argument
- C. Using the `template` argument
- D. Using the `defaults` argument

Answer: B

Q11. Which one is the catch-all route template?

- A. `{**}`
- B. `{url*}`
- C. `{*url*}`
- D. `{*url}`

Answer: D

Q12. Which one correctly defines the id parameter in the url template must be an integer value?

- A. "{controller}/{action}/{int:id}"
- B. "{controller}/{action}/{id:int}"
- C. "{controller}/{action}/{id(int)}"
- D. "{controller}/{action}/{id=int}"

Answer: B

Q13. Which methods in a controller class is considered as action methods?

- A. All public methods defined on a controller class
- B. All public methods defined on a controller class marked with the Action attribute.
- C. All public methods defined on a controller class not marked with the NonAction attribute
- D. All public methods defined on a controller class marked with the HttpXxx attribute.

Answer: C

Q14. _____ is a piece of code that runs around the execution of a controller method.

- A. A route
- B. A route handler
- C. An action filter
- D. A view

Answer: C

Chapter 04

Q1. Which component in ASP.NET MVC applications governs the entire processing of a request?

- A. Model
- B. ViewModel
- C. View
- D. Controller

Answer: D

Q2. Where in an ASP.NET MVC application developers write the actual code required to serve a request?

- A. Model
- B. ViewModel
- C. View
- D. Controller

Answer: D

Q3. What are the required steps of writing of a controller class in an ASP.NET MVC application?

- A. Creating a class that is discoverable as a controller
- B. Creating a view template
- C. Creating a model that represents business data
- D. Coding some public methods in the controller are discoverable as actions

Answer: A, D

Q4. Which one is an implicit route?

- A. app.UseMvc(routes =>

```

{
    routes.MapRoute(
        name: "default",
        template: "{controller=Home}/{action=Index}/{id?}");
});
B. app.UseMvc(routes =>
{
    routes.MapRoute(
        name: "route-today",
        template: "today",
        defaults: new { controller="date", action="day", offset=0 });
}
C. app.UseMvc(routes =>
{
    routes.MapRoute(new {});
}
D. app.UseMvcWithDefaultRoute());

```

Answer: B

Q5. Which are the ways of defining in routes in ASP.NET MVC Core applications?

- A. convention-based routing
- B. attribute routing
- C. programmatic routing
- D. configuration based routing

Answer: A, B

Q6. What routing strategy you can use in an ASP.NET MVC CORE application?

- A. Either convention-based routing or attribute routing
- B. Both convention-based routing and attribute routing
- C. Only convention-based routing
- D. Only attribute routing

Answer: B

Q7. What is the requirement for a class to be a controller in an ASP.NET MVC Core application?

- A. The class must inherit—either directly or indirectly—from a given base class, the `Microsoft.AspNetCore.Mvc.Controller` class
- B. The class must residential in the Controllers folder
- C. The class has the name suffix, "Controller"
- D. The controller class can be a plain old C# object (POCO) as long as it is discoverable

Answer: D

[Before Core versions of ASP.NET MVC released before ASP.NET Core, inheriting from the base class `Controller` was a strict requirement. In ASP.NET Core, instead, you can also have controller classes that are plain C# classes with no inherited functionality.

The namespace of the controller class is unimportant in ASP.NET Core, you can place your controller classes in any folder and any namespace you wish.

For the system to successfully discover a POCO controller, either the class name has the "Controller" suffix, or the class is decorated with the `Controller` attribute.]

Q8. How can you make a POCO class to be discoverable as a controller?

-
- A. Either place class in Controllers folder or name the class with the "Controller" suffix
 - B. Either name the class with the "Controller" suffix, or the class is decorated with the Controller attribute.
 - C. Either place class in Controllers folder, or the class is decorated with the Controller attribute
 - D. None of the above

Answer: B

Q8. How can you make a public method of a controller method invisible to the routing system of ASP.NET Core at runtime?

- A. Change the access modifier to protected
- B. Mark the method with the NonAction attribute
- C. Mark the method with the Authorize attribute
- D. Comment out the method

Answer: B

Q8. How can you bind a public method with a different action that has the name different from the method name?

- A. Using HttpXxx attribute
- B. Using Authorize attribute
- C. Using ActionName attribute
- D. Using Bind attribute

Answer: C

Q9. Which one binds the same http verb with the action as the given below?

[AcceptVerbs("get", "post")]

public IActionResult CallMe(){/*...*/}

- A. [Http("Get", "Post")]
public IActionResult CallMe(){/*...*/}
- B. [Accept("Get", "Post")]
public IActionResult CallMe(){/*...*/}
- C. [HttpPost, HttpGet]
public IActionResult CallMe(){/*...*/}
- D. [Post, Get]
public IActionResult CallMe(){/*...*/}

Answer: C

Q11. You have used only attribute routing in a controller like below

[Route ("catalog")]

public class ProductController: Controller

```
{  
    [Route ("all")]  
    public IActionResult List (){/*...*/}  
}
```

Which url should invoke the List action?

- A. /catalog/all
- B. /all
- C. /catalog/?all
- D. All of the above

Answer: A

You have used only attribute routing in a controller like below

```
[Route ("catalog")]
```

```
public class ProductController: Controller
```

```
{  
    [Route ("/all")]  
    public IActionResult List (){/*...*/}  
}
```

Which url should invoke the List action?

- A. /catalog/all
- B. /all
- C. /catalog/?all
- D. All of the above

Answer: B

Q12. Which dictionary you use to access the values extracted from the query string of the URL?

- A. ViewData
- B. RouteData
- C. ViewBag
- D. Request.Query

Answer: D

Q13. Which attribute is not used for constraining the model binding to exactly the specified data source?

- A. Route
- B. FromQuery
- C. FromRoute
- D. FromForm

Answer: A

Q14. Which IActionResult type is used to return javascript in ASP.NET Core?

- A. JsonResult
- B. JavascriptResult
- C. ContentResult
- D. VirtualFileResult

Answer: C

[In MVC Core, JavascriptResult is not supported]

Q15. Which one should you use to return a 404 status code from an action method?

- A. HttpStatusCodeResult
- B. NotFoundResult
- C. EmptyResult
- D. FileContentResult

Answer: B

[FileContentResult is not supported in Core, new StatusCodeResult is there.]

Q16. Which Web Api related action result type returns a 200 status code?

- A. AcceptedResult
- B. OkObjectResult

-
- C. OkResult
 - D. StatusCodeResult

Answer: B, C

Chapter 05

Q1. What is terminating middleware in an ASP.NET Core application?

- A. It is a function that terminates unauthorized HTTP request
- B. It is a function that is set to handle specific HTTP request
- C. It is a function that processes the HTTP request
- D. All of the above

Answer: C

Q2. What is Razor in ASP.NET MVC programming?

- A. Razor is a view rendering engine
- B. Razor is the markup language used for expressing HTML-like templates
- C. Razor is a data modeling tool
- D. Razor is an alternative to Web form server controls

Answer: B

Q3. Which component renders view templates written in razor out to consumable HTML?

- A. Controller
- B. Route
- C. View engine
- D. Identity

Answer: C

Q4. Which method in a controller action triggers view engine to process a view template to render HTML?

- A. Write
- B. Execute
- C. View
- D. Render

Answer: C

Q5. A Razor template file has the extension _____?

- A. .cshtml
- B. .cs
- C. .aspx
- D. .edmx

Answer: A

Q6. How can you serve HTML content from a Razor template bypassing the controller and action?

- A. Writing HTML directly to the response stream
- B. Without defining a route
- C. By activating the static file service
- D. Putting the razor pages under the Pages folder

Answer: D

Q7. What does a view contains?

- A. HTML elements
- B. C# code snippets
- C. a mix-up of HTML elements and C# code snippets

D. model data

Answer: C

Q8. What does the following action method actually returns

```
public IActionResult Index()  
{  
    return View();  
}
```

- A. String
- B. MvcHtmlString object
- C. ViewResult object
- D. ContentResult object

Answer: C

Q9. What is the default view name of the view when you call the View method without any view name parameter?

- A. Index
- B. Default
- C. The view name defaults to the name of the action
- D. The view name defaults to the name of the controller

Answer: C

Q10. What is the default name of master view?

- A. Site.master
- B. Layout.master
- C. _Layout.master
- D. _Layout.cshtml

Answer: D

Q11. Which feature of ASP.NET MVC is comparable to using multiple sub-application?

- A. View components
- B. Areas
- C. Multiple routes
- D. Customers view engine

Answer: B

Q12. How do you write c# code snippets in a Razor view?

- A. Within <% and %>
- B. Within { and }
- C. Within <code> and </code>
- D. Prefix code with @ symbol

Answer: D

Q13. Which one contains code that is being run before any view is rendered?

- A. _ViewStart.cshtml
- B. _ViewImports.cshtml
- C. _Layout.cshtml
- D. Global.asax

Answer: A

Q14. Which one do you use add Razor directives that you want to share across all views?

- A. _ViewStart.cshtml
- B. _ViewImports.cshtml
- C. _Layout.cshtml

D. Global.asax

Answer: B

Q15. Which directive do you use to import namespaces in your view?

- A. @imports
- B. @using
- C. @addTagHelpers
- D. @inherits

Answer: B

Q16. Which directive do you use to indicate the type of the class being used to pass data to the view.?

- A. @imports
- B. @using
- C. @@inject
- D. @model

Answer: D

Q17. What are the ways to pass data from the controller action to a view?

- A. Using the two built-in dictionaries—ViewData and/or ViewBag
- B. Using strongly-typed view model objects
- C. Using dependency injection via the @inject directive
- D. Using @using directive to import model data

Answer: A, B, C

Q18. Which one is a key/value dictionary used to pass data to a view from an action?

- A. ViewBag
- B. ViewData
- C. Model data
- D. Injected data

Answer: B

Chapter 06

Q1. Which system component processes the action result to produce the actual response?

- A. The view engine
- B. The action invoker system component
- C. Razor compiler
- D. The controller

Answer: B

Q2. What does a razor file contain?

- A. HTML expressions and model data.
- B. HTML expressions and code expressions.
- C. HTML expressions and business logic
- D. HTML and CSS style expressions and javascript code.

Answer: B

Q3. What is the default view engine in ASP.NET Core?

- A. ASP.NET view engine
- B. Razor view engine
- C. CSHTML view engine
- D. There is no default, you have set up during bootstrap process

Answer: B

Q4. How is the programming language used in razor pages identified?

- A. From the extension of the Razor file.
- B. From the language setting in the @page directive
- C. From the language property in the appsettings.json file
- D. Only c# language is supported in razor, so there nothing special to do

Answer: A

[.cshtml extension is used for c#, .vbhtml extension is for visual basic]

Q5. Which character always denotes the start of a Razor code expression?

- A. #
- B. \$
- C. @
- D. =>

Answer: C

Q6. Which one is correct razor code block?

- A. @(...)
- B. @[...]
- C. @{...}
- D. ()=>{...}

Answer: C

Q7. Which razor code expression will work correctly?

- A. @
var round = 39;
ESAD Round @round
}
- B. @
var round = 39;
"ESAD Round" @round
}
- C. @
var round = 39;
"ESAD Round"+ @round
}
- D. @
var round = 39;
<text>ESAD Round @round</text>
}

Answer: D

[The following is also correct

```
@{  
    var round = 39;  
    @: ESAD Round @round  
}
```

Using @ you switch to code mode, next HTML tag ends the code mode.

```
@if(..)<-- you are in code mod3  
{
```

```
    <div>some text </div> ← you are in Html mode, Html tag does this  
}<-- you are in code mode
```

```
@if(..)<-- you are in code mod3  
{
```

```

    some text ← confusion here
}← you are in code mode
So the trick is
@if(..)← you are in code mod3
{
    <text>some text </text> ← you are in Html mode, Html tag does this
}← you are in code mode
Or explicitly you can say
@if(..)← you are in code mod3
{
    @: some text ← @: indicates the following is pure text string
}← you are in code mode

]
```

Q8. Which one allows for multi-line statements in razor?

- A. @expression
- B. @(..)
- C. @{...}
- D. @()=>{...}

Answer: C

Q9. Which helper do you use to emit unencoded HTML markup?

- A. Html.Content
- B. Html.Text
- C. Html.TextBox
- D. Html.Raw

Answer: D

[Any content being processed by Razor is automatically encoded, which makes your HTML output extremely secure and resistant to XSS script injections without any additional effort on your end.

```
@(<b>some text </b>")
```

Will emit

```
&lt;b&gt;someone text &lt;/b&gt;
```

```
@Html.Raw("<b>some text </b>")
```

Will emit

```
<b>some text </b>
```

```
]
```

Q10. Which one is nothing more than an HTML factory?

- A. Razor code expressions
- B. MVC route
- C. Html helpers
- D. Model binder

Answer: C

Q11. Which helper is used to render a HTML link?

- A. Html.Action
- B. Html.ActionLink
- C. Url.Action
- D. Url.Content

Answer: B

Q12. Which one plays the role of master pages in MVC Core?

- A. Partial view

-
- B. Layout template
 - C. View component
 - D. ViewBag

Answer: B

Q13. Which property of a view is used to set layout template for it?

- A. MasterPageFile
- B. @master directive
- C. Layout
- D. Template

Answer: C

Q14. How do you create an insertion point in layout page to inject content from a view?

- A. Calling the RenderSection method
- B. Calling the RenderBody method
- C. Calling the Html.Partial method
- D. Using the <environment>.. </environment> construct

Answer: B

Q15. Which one do you use to inject content from view into more than one location in the layout template?

- A. Using the RenderSection method
- B. Using the RenderBody method
- C. Using the Html.Partial method
- D. Using the <environment>.. </environment> construct

Answer: A

Q16. In MVC Core, which one of the following works like Html helpers but provide a much more concise and natural syntax?

- A. View components
- B. Areas
- C. Tag helpers
- D. @inject directive

Answer: C

Q17. Which directive is used to register tag helpers?

- A. @inject
- B. @model
- C. @using
- D. @addTagHelper

Answer: D

Q18. How do make sure that built-in helpers are available to all Razor views?

- A. Register tag helpers in the _ViewImports.cshtml file
- B. Register tag helpers in the _ViewStart.cshtml file
- C. Register tag helpers in the _Layout.cshtml file
- D. None of the above

Answer: A

Chapter 07

Q1. Which is the following is for passing data across layers of code?

- A. ViewModel

-
- B. Route
 - C. Dependency injection
 - D. Strongly-typed view

Answer: C

Q2. What is dependency injection (DI)?

- A. a system for managing dependencies of Web applications
- B. a service to load dependency modules dynamically where required
- C. a development pattern widely used to make services available to code everywhere in the application
- D. a design pattern based on SoC

Answer: C

Q3. Which one of the following provides the mechanisms to configure the application's request pipeline?

- A. IApplicationBuilder
- B. ILoggerFactory
- C. IHostingEnvironment
- D. IConfiguration

Answer: A

Q4. Which one of the following provides information about the web hosting environment which an application is running?

- A. IApplicationBuilder
- B. ILoggerFactory
- C. IHostingEnvironment
- D. IConfiguration

Answer: C

Q5. Which method do you use for registering custom dependencies with the ASP.NET Core DI system?

- A. The UseXxx defined on the IApplicationBuilder interface
- B. The AddXxx defined on the IServiceCollection interface.
- C. The GetService defined on the IServiceCollection interface
- D. The AddXxx defined on the IConfiguration interface

Answer: B

Q6. Which method is used to register a type with DI system with requirement that the caller receives a new instance of the specified type per call?

- A. Add
- B. AddTransient
- C. AddSingleton
- D. AddSingleton

Answer: B

Q7. How injection services into controllers mostly occur with the ASP.NET MVC application model?

- A. Through the constructor of controller classes
- B. Through the service locator object
- C. Through the properties of controller classes
- D. Through the @inject directive

Answer: A

Q8. Which configuration data source do you use to read data from ad-hoc file formats including JSON, XML, and INI?

- A. Text files
- B. Environment variables
- C. In-memory dictionaries

D. Stream readers

Answer: A

Chapter 09

Q1. What is a layer in layered architecture?

- A. a logical separation between application components
- B. a physically distinct applications and servers
- C. a framework on which applications are built and scaled up
- D. a container that encapsulates data and protects it from outside manipulation

Answer: A

Q2. Which modelling approach is supported by EF core?

- A. Code First approach
- B. Database First approach
- C. Model First approach
- D. None of the above

Answer: A

Q3. How do you map EF Core models to physical database?

- A. Using sql scripts
- B. Using DI system
- C. Using migration scripts
- D. Using .ssdl file

Answer: C

Q4. How can you inject the connection string to your DbContext class?

- A. Using AddDbContext method on the IServiceCollection interface in the Configure method of the startup class
- B. Overriding the OnConfiguring method of the DbContext class
- C. overriding the OnModelCreating method of the DbContext class
- D. overriding the Seed method of the DbContext class

Answer: B

[Used for injecting DbContext to constructor, services etc]

Q5. Where do you register your DbContext class to DI service?

- A. In the Configure method of the startup class
- B. In the ConfigureServices method of the startup class
- C. In the OnConfiguring method of the DbContext class
- D. In the constructor of the controllers

Answer: A

Q6. Which method of the DbContext class creates the database if it does not exist?

- A. Seed
- B. Create
- C. EnsureCreated
- D. Exists

Answer: C

Chapter 10

Q1. What is Web API?

- A. A programmatic interface for creating dynamic data service
- B. A programmatic interface for creating WCF data service
- C. A programmatic interface for creating XML Web service
- D. A programmatic interface made of a number of publicly exposed HTTP endpoints that typically return JSON or XML data to callers

Answer: D

Q2. What type of data a Web API typically returns?

- A. XML or Text
- B. JSON or Text
- C. JSON or XML
- D. Only JASON

Answer: C

Q3. A web API is a collection of _____.

- A. public methods that returns ActionResult
- B. HTTP endpoints
- C. JSON data
- D. XML data

Answer: B

Q4. Which object is returned to return JSON data from an action method?

- A. Anonymous object
- B. Object
- C. JsonResult
- D. JSON

Answer: C

Q5. Which method is used to package an object in a JsonResult object?

- A. Serialize
- B. JsonConvert
- C. Json
- D. Parse

Answer: C

Q6. Which method of the base controller class is used to send text data?

- A. ToString
- B. Convert
- C. Content
- D. Text

Answer: C

Q7. Which method of the IApplicationBuilder is used when the terminating middle-aged is restricted to catch some specific URLs?

- A. Run
- B. Map
- C. Next
- D. Catch

Answer: B

Q8. A REST Service is based on _____.

- A. HTTP protocol

-
- B. WS protocol
 - C. SOAP
 - D. XMLHTTPREQUEST object

Answer: A

Q9. Which HTTP verb is used in REST service to get only metadata of the addressed resource?

- A. HEAD
- B. GET
- C. POST
- D. PUT

Answer: A

Q10. Which HTTP verb is used in REST Service to issue a request for adding a resource when the URI is not known in advance?

- A. HEAD
- B. GET
- C. POST
- D. PUT

Answer: B

Q11. What should be the response of successful HTTP delete request ?

- A. 200
- B. 204
- C. 202
- D. 201

Answer: A, B, C

[200 success, 204 no content, 202 accepted

201 created so not valid for delete]

Q12. What does the HTTP status code 202 mean?

- A. The server has successfully fulfilled the request and that there is no additional content to send
- B. The request has been accepted but will be enacted later
- C. The request has been fulfilled and has resulted in one or more new resources being created.
- D. The request has been fulfilled

Answer: B

[B 204 C 201, D 200]

Q13. Which one is not a WEB-API related IActionResultType?

- A. AcceptedResult
- B. CreatedResult
- C. JsonResult
- D. OkResult

Answer: C

Q14. CreatedResult returns status code _____.

- A. 200
- B. 201
- C. 202
- D. 204

Answer B

Q15. NoContentResult returns status code _____.

- A. 200
- B. 201

-
- C. 202
 - D. 204

Answer: D

Q16. BadRequestResult returns status code _____.

- A. 200
- B. 500
- C. 400
- D. 415

Answer: C

Q17. UnsupportedMediaTypeResult returns status code _____.

- A. 200
- B. 500
- C. 400
- D. 415

Answer: D

Chapter 11

Q1. How can you encode form data using jQuery ready to be sent to server?

- A. Using encodeURIComponent method
- B. Using the serialize method on form element
- C. Using \$.param method on array of key/value pairs
- D. Using \$.ajax method

Answer: B, C

Q2. What should you do for the form file input to be uploaded correctly,

- A. Set the form method to Post
- B. Set the form method to Put
- C. Set the enctype attribute multipart/form-data
- D. Set the enctype attribute application/form-urlencoded

Answer: C

Q3. In ASP.NET Core, which one wraps the uploaded file content?

- A. HttpPostedFileBase
- B. File
- C. FileStream
- D. IFormFile

Answer: D

[In MVC 5, uploaded file is handled by IFormFile]

Chapter 12

Q1. What does the term data-binding refer to?

- A. the ability of a visual component to show data from a data source.
- B. the ability of a visual component to pull data from a data source
- C. the ability of a visual component to be programmatically updated with fresh data
- D. All of the above

Answer: C

Q2. With razor, which one do you use to render a refreshable area in a page?

- A. view
- B. partial view
- C. component
- D. route

Answer: B

Q3. How can you make an action method to run only if the request comes via Ajax?

- A. Using the ChildAction attribute
- B. Using the AjaxOnly attribute
- C. Using the RequireReferrer attribute
- D. Checking the RequestMethod property

Answer: B

Q4. Which library provides a logic-less syntax for creating text templates?

- A. AngularJS
- B. Backbone.js
- C. Mustache.JS
- D. Vue.js

Answer: C

Q5. Which one is the correct syntax for binding a variable in Mustache?

- A. #variable_name
- B. {{ variable_name }}
- C. [variable-name]
- D. @variable_name

Answer: B

Q6. Which library supports MVVM (Model-View-View-Model) pattern for binding data to layout?

- A. jQuery
- B. jQueryUI
- C. Mustache.JS
- D. Knockout.JS

Answer: D

Chapter 13

Q1. Which HTML standard is widely supported by both desktop and mobile browsers?

- A. WebGL API
- B. IndexedDB API
- C. Geolocation
- D. WebSocket

Answer: C

Q2. Which javascript library is popularly used for detecting client device and features?

- A. AngularJS
- B. Mushtache.JS
- C. Knockout.js
- D. Modernizr

Answer: D

Modernizr is a JavaScript library that detects the features available in a user's browser. This lets web pages avoid unsupported features by informing the user their browser isn't supported or loading a polyfill. Modernizr aims to provide feature detection in a consistent and easy to use manner that discourages the use of failure-prone browser sniffing.[5]

Q3. Why do you use the Modernizr library?

-
- A. It is used to bring the feature that is not actually available on the current browser, regardless of the host device
 - B. It is used to find out for you whether the feature is actually available on the current browser, regardless of the host device
 - C. It upgrades the current browser to support feature that is necessary to function properly
 - D. All of the above

Answer: B

Q4. Which one the only reliable way to determine whether the device is a desktop computer or less powerful type of device, such as a phone or tablet?

- A. Using library like Modernizr
- B. Sniffing the user agent string
- C. Using browsercap.ini file
- D. Using CSS3 media queries

Answer: B

Q5. Which JavaScript library detects device models of smartphones, tablets, smart TVs and game consoles accessing your website?

- A. Modernizr
- B. canuse.js
- A. WURFL.js
- B. All of the above

Answer: C

WURFL.js is JavaScript that detects device models of smartphones, tablets, smart TVs and game consoles accessing your website. What is WURFL device?

WURFL (Wireless Universal Resource FiLe) is a set of proprietary application programming interfaces (APIs) and an XML configuration file which contains information about device capabilities and features for a variety of mobile devices, focused on mobile device detection.

Q6. What is Client Hints inspired by?

- C. Browser's user-agent headers
- D. Browser's Accept-* HTTP headers
- E. CSS3 media queries
- F. Modernizr library

Answer: B

Q7. Which HTML element is helpful for incorporating device-friendly images?

- A. figure
- B. picture
- C. media
- D. image

Answer: B

Q8. What is ImageEngine platform?

- A. cloud blob storage for images
- B. image resizing tool exposed as a service
- C. a javascript library for serving device-friendly images
- D. All of above

Answer: B

Chapter 14

Q1. WebHost implements _____.

- A. IServiceCollection
- B. IApplicationBuilder
- C. IWebHostBuilder
- D. WebSocket

Answer: C

Q2. Which method of the WebHost class allow you to set up a web application?

- A. Run
- B. Build
- C. Start
- D. Use

Answer: C

Q3. By default, the host listens for incoming requests on port _____.

- A. 80
- B. 8080
- C. 5000
- D. a random number

Answer: C

Q4. To create a host builder with default configuration you can _____.

- A. WebHost.Start
- B. WebHost.Run
- C. WebHost.Build
- D. WebHost.CreateDefaultBuilder

Answer: D

Q5. Where do you setup terminating middleware in ASP.NET core?

- A. In the program.cs file
- B. In the Startup.cs file
- C. In appsettings.json file
- D. None

Answer: B

Q6. The most common way to specify the startup class is to use _____ method

- A. UseStartup<T> ()
- B. UseStartup(Type)
- C. UseStartup(string)
- D. UseStartup(T)

Answer: A

Q7. Which one of the following an windows-only alternative to Kestrel?

- A. IIS
- B. ngInx
- C. HTTP.sys
- D. Apache

Answer: C

Q8. Which method of the WebHiltBuilder is used to indicate the host addresses with ports and protocols on which the server should listen for incoming requests?

- A. UseKestrl
- B. UseIIS
- C. UseUrls
- D. UseContentRoot

Answer: C

Q9. Which one correctly indicates that the server should listen for requests on any hostname using the specified port and protocol?

-
- A. `new WebHostBuilder()....
.UseUrls(port=7000)
...
.Build();`
 - B. `new WebHostBuilder()....
.UseUrls("http://*")
...
.Build();`
 - C. `new WebHostBuilder()....
.UseUrls("http://*:7000")
...
.Build();`
 - D. `new WebHostBuilder()....
.UseUrls("http://.:7000")
...
.Build();`

Answer: C

Chapter 15

Q1. In which environments only ASP.NET Core application, but not classic ASP.NET applications, can be deployed?

- A. Linux on-premise machine
- B. Cloud environment such as Amazon Web Services (AWS)
- C. Docker container
- D. IIS

Answer: A, B, C

Q2. Which one is NOT a publishing target of an ASP.NET Core application?

- A. Azure App Service
- B. Microsoft Azure Virtual Machine
- C. Folder
- D. Apache on Linux

Answer: D

Q3. Which publish target should you select if you want to publish via FTP, WebDeploy, or by a direct copy of the necessary files?

- A. Azure App Service
- B. Microsoft Azure Virtual Machine
- C. IIS, FTP etc
- D. Folder

Answer: C

Q4. What happens to razor pages/views when you publish an ASP.NET Core application?

- A. They are copied to target as it is
- B. They are precompiled into a DLL
- C. They are copied to wwwroot folder
- D. They are converted to .cs files

Answer: B

Q5. What is a self-contained application?

- A. The application only contains third-party dependencies when published

-
- B. The application only contains application binaries, including any third-party dependencies when published
 - C. The application contains application binaries, all third-party dependencies and also the .NET Core binaries for the specified runtime environment when published
 - D. None

Answer: C

Q6. Which command is used to publish a project using the dotnet cli tool?

- A. dotnet deploy
- B. dotnet publish
- C. dotnet out
- D. dotnet new

Answer: B

Q7. What is required to do to host ASP.NET Core applications on an IIS machine?

- A. Install netcore sdk
- B. Install the ASP.NET Core ISAPI module
- C. Install docker
- D. Setup Azure virtual machine

Answer: B

Q8. Which one option is not available when an ASP.NET Core application to be deployed to linux?

- A. Apache
- B. Nginx
- C. IIS
- D. Amazon Web Services

Answer: C

Q9. Which one is an open-source HTTP server?

- A. IIS
- B. IIS Express
- C. Nginx
- D. Iplanet

Answer: C

Q10. What is a Docker container?

- A. A virtual web server capable of running .net core application
- B. A open-source web server capable of running .net core application
- C. A unit of software that contains an application and its dependencies and configuration
- D. None

Answer: C