



# Important ASP.NET Core Features - Need to Know

ASP.NET is one of the most popular **web application creation** frameworks. The most advanced features are introduced with each update, allowing the ASP.NET development tools to build highly efficient and scalable websites. ASP.NET is a powerful tool for creating amazing apps combined with application monitoring and other tools to improve performance. New features are constantly added that allows developers to build and implement very scalable, high-performance web-based applications. [Hire Asp.Net Developer](#)

**We have listed some essential ASP.NET core features that you must know about.**

## 1. Cross-platform

it is currently possible to allow ASP.NET Core applications to run on almost any platform. Previously, ASP.NET apps were not agreeable with Mac and Linux. It's unnecessary to build different applications on different platforms using various frameworks. Developers can determine the operating system they prefer when creating apps. Due to ASP.NET its cross-platform nature, developers can build applications accessible to a growing amount of users on various platforms. Hire best [.net developers](#)

## 2. Container help

Containers in cloud computing are believed to function as a package system that's used to incorporate code. To guarantee that it can test the application's functionality and run it effectively across different computing environments. Containers are the ones responsible for providing Virtualization services at an OS level.

## 3. High-Performance

ASP.Net Libraries that are Core, speedier release cycles, optimization, and innovative ideas related to space and memory allocation assist developers write more efficient and maintainable code. The highest priority to performance has created Asp.net Core to be one of the most efficient web frameworks possible in the marketplace to run mobile applications, IoT, and clouds in the now.

## 4. Other environments that are multi-layered

There is an exciting environment feature within ASP.NET Core that will distinguish between different behaviors seen in environments. It could be staging, development testing, production or. There was no method to accomplish this before Asp.net Core.

This Startup.cs file is used to configure our application to work in various environments.

## **5. United Web API and MVC frameworks**

It is the case that both Web API and MVC frameworks are combined with ASP.NET Core instead of different frameworks. It presents a precise and more effective development moment as there were many differences between the two frameworks.

Furthermore, Razor pages have been incorporated into ASP.NET essential features. It assists in increasing the effectiveness of programming as each page can be confident of its code and view organization.

## **6. Dependency Injection**

One of the best new features that are part of ASP.NET Core is built-in Dependency Injection. This feature is utilized extensively in ASP.NET MVC too. Most developers use this method to send things like log contexts and database contexts and many other things into MVC controllers.

## **7. Action Filters**

Action filters let developers build a functionality that can be added to the entire controller or action without changing the activity.

In general, Filters are used to show Caching, Error Handling, Authorization.

## **8. Localization and Globalization**

ASP.NET lets us make it easy to localize dates, numbers, as well as text inside our web-based application. If we wish to have our application be utilized worldwide, then Localization is the best option.

Utilizing resource files, it is possible to customize our application to offer multi-language support—these resource files as central storage where all the texts in multiple languages are kept.

**Local Resource:** specific to a particular page

**Global Resources** used across the entire website

## **9. Asynchronous Programming via async/await**

The method ASP.NET makes use of Asynchronous programming models is highly effective. Most of the processing time and CPU resources are spent in database queries, web service calls, and other I/O operations that want to be completed in all data-centric applications. One of the primary factors why ASP.NET Core is faster is that it uses asynchronous programming. Within the latest MVC and Kestrel frameworks. It's making use of it extensively, which is reduces the time it takes to complete the application.

## **10. Extensible Output Caching**

The process of determining how much time that a request should be saved. ASP.net uses this function to store the content produced by a page and then serve the content on any future submissions. It likewise keeps information that is not frequently updated and then outputs that specific information from a cached. Using HTTP headers can be made simple with ASP.net. It also can cache output on your web server in the memory.

### **Are you sure .NET Core is suitable for you?**

Making a choice the right one from ASP.NET Core and ASP.NET framework is a choice that's based on intent.

### **Make use of ASP.NET Core on times when**

- You'd like to experience the latest features of ASP.Net core. The application isn't an enterprise-level application with various security options.
- Developers work with Mac and Linux to build the application and launch it on Mac or Linux machines.
- It would improve if you had high-performance software. These ASP.NET Core applications are rapid when connected to ASP.NET applications.
- You're interested in working with boxes such as Docker to deploy the apps.

### **Use ASP.NET to use ASP.NET when**

- You'll want to use the documentation and support online. The technology is still being built in ASP.NET Core. So resolving an issue isn't straightforward.
- You'd like to create an enterprise application that can take advantage of all security loopholes and is an extensive application that makes use of tools that are already in use and third-party apps that haven't been yet ported into ASP.NET Core.

### **The ASP.NET Core Framework**

ASP.NET Core, a web-based application framework that creates the foundation for web-based applications using .NET Core. It comes with out-of-the-box features to dependency injection, logging, configuration, and more.

It creates a WebHost. It then configures it to use the middleware used for routing. It then defines what it should do when an HTTP GET request to the server is received.

ASP.NET Core also provides three major frameworks for higher levels:

1. MVC
2. Razor Pages
3. Blazor

Each one of them addresses different applications. Since they are included in applications as middleware, they can be easily integrated into the same program, allowing us to select the best software for the task.

### **ASP.NET Core MVC**

It is very similar to the original ASP.NET MVC in its idea.

There are a variety of action controllers (Methods) that accept and process HTTP applications and give Razor views.

### **ASP.NET Core Razor Pages**

This is a page model which is like PHP in some ways. Many Razorfiles are used to create the actual web pages and C# files to handle backend logic.

### **What exactly is .Net core being used to do?**

It's used to support the development of server-based applications that work across Mac, Windows, and Linux. At present, it doesn't allow the development of desktop-based applications by using an interface for users. .Net is a core framework that will enable developers to create applications and libraries using C#, F#, and VB.NET for both runtimes.

### **What is .Net core superior to .Net?**

As a brand new open-source, cross-platform framework, .Net core can create applications on different operating systems such as Mac, Windows, and Linux. It is also much more efficient than .Net. It's a highly scalable system and offers high-performance, without a user interface.

### **What exactly does .Net core refer to?**

.Net Core Framework is a superior alternative to the .Net framework. It is free, open-source, and is a platform that supports general-purpose development. .Net Microsoft manages core. This framework that runs across platforms is available on Linux Operating Systems, macOS, and Windows.

### **What is comprised in .Net core?**

The ASP .Net core runtime provides essential services for apps connected to the internet, such as IoT apps, web applications, and mobile backends. The desktop runtime provides services for Windows desktop apps, which include WPF along with Windows Forms.

## Define the future of .Net core?

The .Net Core framework is the future of .Net. It is the next version of .Net. The unified platform comes with several high-level, big-time libraries and APIs, runtime components, compilers, low-level libraries tools, type systems, and languages.

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