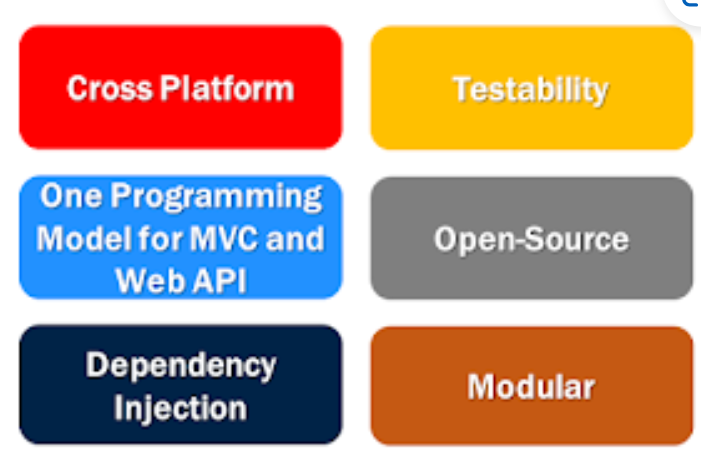
# ASP.NET CORE

## WHAT IS ASP.NET CORE?

* ASP.NET Core is a cross-platform, high-performance, open-source framework for building modern, cloud based, Internet-connected applications
* ASP.NET Core is a redesign of ASP.NET 4.x

## ASP.NET CORE BENEFITS AND FEATURES

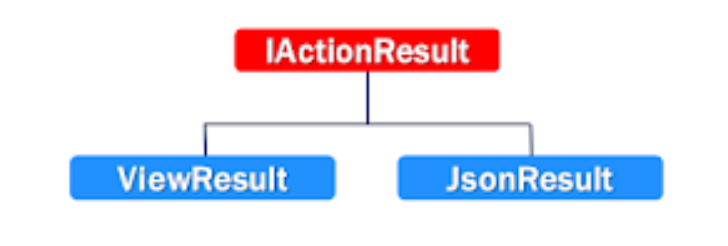


### CROSS PLATFORM:

1. ASP.NET Core applications can be developed and run across different platforms like Windows, MacOS, Linux
2. ASP.NET Core applications can be hosted on IIS, Apache, Docker, Self-host in your own process

### One Unified Programming Model for MVC and Web API:

Both the MVC Controller class and the ASP.NET Web API Controller class inherit from the same 'Controller' base class and returns 'IActionResult'



### Modular:

* ASP.NET Core Provides Modularity with Middleware Components
* Both the request and response pipelines are composed using the middleware components
* Rich set of built-in middleware components are provided out of the box
* Custom Middleware Components can also be created

## ASP.NET Core Project File

### TargetFramework

* Specifies the target framework for the application
* To specify a target framework we use Target Framework Moniker (TFM)



In our case the TFM is **netcoreapp3.1**

### AspNetCoreHostingModel

* Specifies how the application should be hosted
* InProcess or OutOfProcess
* InProcess hosts the app inside of the IIS worker process(w3wp.exe)
* OutOfProcess hosting model forward web requests to a backend ASP.NET Core app running the Kestrel Server