ASP.NET Core

Note:

1. https://dotnet.github.io/
2. There is a new version of .NET Framework available called .NET Core for cross platform development.

Welcome to .NET Core

| Getting Started | Documentation | API reference |

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Welcome to ASP.NET Core

We've made some big updates in this release, so it's **important** that you spend a few minutes to learn what's new.

You've created a new ASP.NET Core project. **Learn what's new** ➔

This application consists of:

Sample pages using ASP.NET Core MVC

Bower for managing client-side libraries

Theming using Bootstrap

HOW TO

Add a Controller and View

Add an appsetting in config and access it in app.

Manage User Secrets using Secret Manager.

Use logging to log a message.

Add packages using NuGet.

Add client packages using Bower.

Target development, staging or production environment.

OVERVIEW

Conceptual overview of what is ASP.NET Core

Fundamentals of ASP.NET Core such as Startup and middleware.

Working with Data

Security

Client side development

Develop on different platforms

Read more on the documentation site

RUN & DEPLOY

Run your app

Run tools such as EF migrations and more

Publish to Microsoft Azure Web Apps

We would love to hear your feedback

Packages | NuGet   npm   Bower   Gulp

Bring in libraries from NuGet, Bower, and npm, and automate tasks using Grunt or Gulp. **Learn More**

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Application uses

- Sample pages using ASP.NET Core MVC
- Bower for managing client-side libraries
- Theming using Bootstrap

How to
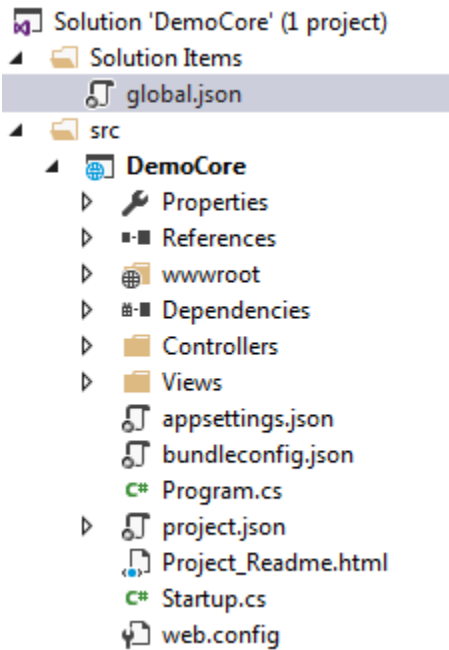
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Overview

- Conceptual overview of what is ASP.NET Core
- Fundamentals of ASP.NET Core such as Startup and middleware.
- Working with Data
- Security
- Client side development
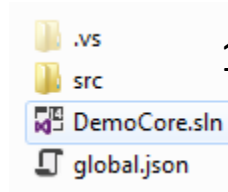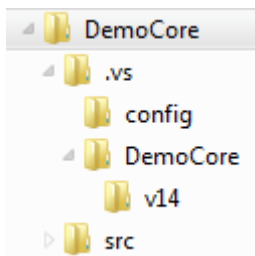- Develop on different platforms
- Read more on the documentation site

Run & Deploy

- Run your app
- Run tools such as EF migrations and more
- Publish to Microsoft Azure Web Apps

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Solution 'DemoCore' (1 project)
- Solution Items
  - global.json
- src
  - DemoCore
    - Properties
    - References
    - wwwroot
    - Dependencies
    - Controllers
    - Views
    - appsettings.json
    - bundleconfig.json
    - Program.cs
    - project.json
    - Project_Readme.html
    - Startup.cs
    - web.config

DemoCore
- .vs
  - config
  - DemoCore
    - v14
- src

.vs
src
DemoCore.sln
global.json

Visual Studio 2015 Core Tooling.
1. Src folder contains all source code.
2. Uses Builder design pattern.
3. .vs folder contains new applicationhost.config file.
4. New DemoCore.xproj project templates.
5. It is a console application that creates a web server. The Program.cs contains a main method that does this.
6. Does not use System.web.dll. Uses NuGet packages and smaller modules to improve performance.
7. Uses dependency injection to setup a container with services and logging.
8. The Project Location is no longer the root for the web application. The root is now wwwroot with the world icon. This has been done to organize things better.
9. http://localhost:80/Home/Index is the starting url.
10. Controllers and Views are special folders which are using to build user interfaces.
11. Controllers are now like MiddleWare because they use dependency injection.
12. A Controller can return JSON Data.

▲ 🔳 .NETCoreApp,Version=v1.0
  ▷ 🔲 Microsoft.ApplicationInsights.AspNetCore (1.0.0)
  ▷ 🔲 Microsoft.AspNetCore.Diagnostics (1.0.0)
  ▷ 🔲 Microsoft.AspNetCore.Mvc (1.0.0)
  ▷ 🔲 Microsoft.AspNetCore.Razor.Tools (1.0.0-preview2-final)
  ▷ 🔲 Microsoft.AspNetCore.Server.IISIntegration (1.0.0)
  ▷ 🔲 Microsoft.AspNetCore.Server.Kestrel (1.0.0)
  ▷ 🔲 Microsoft.AspNetCore.StaticFiles (1.0.0)
  ▷ 🔲 Microsoft.Extensions.Configuration.EnvironmentVariables (1.0.0)
  ▷ 🔲 Microsoft.Extensions.Configuration.Json (1.0.0)
  ▷ 🔲 Microsoft.Extensions.Logging (1.0.0)
  ▷ 🔲 Microsoft.Extensions.Logging.Console (1.0.0)
  ▷ 🔲 Microsoft.Extensions.Logging.Debug (1.0.0)
  ▷ 🔲 Microsoft.Extensions.Options.ConfigurationExtensions (1.0.0)
  ▷ 🔲 Microsoft.NETCore.App (1.0.0)
  ▷ 🔲 Microsoft.VisualStudio.Web.BrowserLink.Loader (14.0.0)

Note:
1. Comes with a new web server called Kestrel.
2. New configuration extensions.
3. Application Insights to capture App metrics.
4. Runs using IISExpress.
5. Uses Extension methods.

Chose a Framework

Mac Development 1	Mac Development 2	Cross Platform 1	Cross Platform 2
Safari & Jquery UI	Google Chrome	Google Chrome	Google Chrome
JSON Rest Kit	JSON Rest Kit	Aurelia or Angular	Generate Native Code
PHP	PHP	Node JS	Xamarin
Cake PHP	Symfony	JSON Rest Kit Web API	JSON Rest Kit Web API
Apache Web Server	Apache Web Server	Apache on Mac	Apache
Oracle Database	My SQL Database	Oracle on Mac	Oracle

Windows Development 1	Windows Development 2	Windows Development 3	Windows Development 4
Internet Explorer	Internet Explorer	Internet Explorer	Internet Explorer
DataSet	Aurelia	Angular 2 & Typescript	Django 1.8
WebForms	JSONP	JSONP	JSONP
Enterprise Library	MVC Web API	ASP.NET Core MVC 5	Python (Anaconda)
ODP.NET	Dapper Micro ORM	Entity Framework	Dapper Micro ORM
Oracle	Oracle	Oracle	Oracle

Angular SPA Template

1. https://visualstudiogallery.msdn.microsoft.com/5af151b2-9ed2-4809-bfe8-27566bfe7d83
2. Angular Seed Project. https://github.com/angular/angular-seed
3. Jet Brains Web Storm IDE.