ASP.NET 5: Hey ASP.NET isn’t just for enterprise

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Hello!

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Perception

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This product is LIMITED EDITION.
Developing for the web today

Modern Web
I Am Developer @iamdevloper · Oct 2

Starting a basic website in 2014:

1. Install Node
2. Install Bower
3. Pick CSS framework
4. Pick responsive approach
   ...

47. Write some HTML
What is ASP.NET 5?
What is Aspnet5?

new open-source and cross-platform framework for building modern cloud-based Web applications using .NET
Why?
Open Source
benchmarks
A playground for experimenting with different server models
Updated 2 hours ago

Caching
Libraries for caching, including in-memory caching, distributed caching, and ASP.NET session caching.
Updated 12 hours ago

Docs
Documentation for ASP.NET 5
Updated 14 hours ago
Perfect thank you. I have tried dnx. kestrel and I get this error instead (please see IMG). Any clue why this could be happening?

System.InvalidOperationException: No service for type 'Microsoft.Framework.Runtime.IApplicationEnvironment' has been registered.
  at Microsoft.Framework.DependencyInjection.ServiceProviderExtensions.GetRequiredService(IServiceCollection serviceProvider, Type serviceType)
  at Microsoft.Framework.DependencyInjection.ServiceProviderExtensions.GetRequiredService[T](IServiceProvider serviceProvider)
  at Microsoft.AspNetCore.Hosting.HostingEngine..ctor(IServiceProvider fallbackServices)
  at Microsoft.AspNetCore.Hosting.Program.Main(String[] args)
--- End of stack trace from previous location where exception was thrown ---
  at System.Runtime.ExceptionServices.ExceptionDispatchInfo.Throw()
  at Microsoft.Framework.ApplicationHost.Program.ExecuteMain(Host host, String applicationName, String[] args)
  at Microsoft.Hosting.Program.Main(String[] args)
--- End of stack trace from previous location where exception was thrown ---
  at System.Runtime.ExceptionServices.ExceptionDispatchInfo.Throw()
  at dnx.host.Bootstrapper.RunAsync(List`1 args, IRuntimeEnvironment env)
  at dnx.host.RuntimeBootstrapper.ExecuteAsync(String[] args)
  at dnx.host.RuntimeBootstrapper.Execute(String[] args)

Yes! You are using an older DNX version than you are packages.
Cross Platform
3 laptops one project I getting ready for #OSCON. #crossplatform #aspnet5 can't wait to speak @oscon
.NET Cross-platform development
Demystifying the Ds
Demystifying the Ds

DNVM
.Net Version Manager

DNX
.Net Execution Environment

DNU
.Net Development Utilities
Demystifying the Ds — DNVM

• What is DNVM?
  - version manager tool for the command line
  - provides the functionality needed to configure your .NET runtime

• Using DNVM
  - specify which version of DNX to use

• Installing: PowerShell, CMD, Homebrew, Curl
Demystifying the Ds — DNX

• What is DNX?
  - SDK and runtime environment with everything you need to build and run .NET applications for Windows, Mac and Linux.

• Installing: Homebrew

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Demystifying the Ds — DNU

- What is DNU?
  - command-line tool which provides a variety of utility functions to assist with development in ASP.NET

- Using DNU
  - install and manage library packages
  - package and publish applications
Building An ASP.NET 5 Project
Something Familiar

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File, New , Project

Visual Studio
Node.js® is a platform built on Chrome's JavaScript runtime for easily building fast, scalable network applications. Node.js uses an event-driven, non-blocking I/O model that makes it lightweight and efficient, perfect for data-intensive real-time applications that run across distributed devices.

Current Version: v0.10.30
npm install --global yo
npm install grunt-cli generator-aspnet bower
yo aspnet

npm install -g yo

latest picks.
What kind of projects can you build?

- Console Applications
- Empty Application
- Web Application
- Web API Applications
- Nancy ASP.NET Applications
PREVIEW - A project template for creating an ASP.NET 5 application. The template uses ASP.NET MVC and can be used to build Web Applications and RESTful HTTP Services.

Learn more

Authentication: Individual User Accounts

Host in the cloud
Welcome to the marvellous ASP.NET 5 generator!

? What type of application do you want to create? (Use arrow keys)
> Empty Application
  Console Application
  Web Application
  Web Application Simple [without Membership and Authorization]
  Web API Application
  Nancy ASP.NET Application
  Class Library
HERE'S HOW YOU CAN TOO

ATOM
Brackets
$ ➔ yo aspnet
$ ➔ dnx .run
Emacs
Sublime Text
Vim
Visual Studio Code
Setting up — Windows

Installing DNVM

Windows — CMD

@powershell -NoProfile -ExecutionPolicy unrestricted -

Command "&{$Branch='dev';iex ((new-object
net.webclient).DownloadString('https://raw.githubusercontent
.com/aspnet/Home/dev/dnvminstall.ps1'))}"
Setting up — Windows

Installing DNVM

Windows — Powershell

&{$Branch='dev';iex

((newobjectnet.webclient).DownloadString('https://raw.githubusercontent.com/aspnet/Home/dev/dnvminstall.ps1'))}
Homebrew
The missing package manager for OS X

Install Homebrew

```
ruby -e "$(curl -fsSL https://raw.githubusercontent.com/Homebrew/install/HEAD/install.bash | bash)
```

Paste that at a Terminal prompt.
The script explains what it will do and then pauses before it does it. There are more installation options here (needed on 10.5).

What Does Homebrew Do?

Homebrew installs the stuff you need that Apple didn’t.

```
$ brew install wget
```

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Setting up— Homebrew

Installing DNVM

OS X - Homebrew

brew tap aspnet/dnx
brew install dnvm

source dnvm.sh

brew untap aspnet/dnx
brew tap aspnet/dnx
Setting up — Ubuntu & Debian

- Working version of Mono
- Get & compile libuv (for kestrel server)
- Get DNVM
- Add NuGet config sources

bit.ly/DebianUbuntu
namespace mn_testoscon.Controllers
{
    public class HomeController : Controller
    {
        public IActionResult Index()
        {
            return View();
        }

        public IActionResult About()
        {
            ViewData["Message"] = "Your application description page.";
            return View();
        }

        public IActionResult Contact()
        {
            ViewData["Message"] = "Your contact page.";
            return View();
        }

        public IActionResult Error()
        {
            return View("~/Views/Shared/Error.cshtml");
        }
    }
}
null
using Microsoft.AspNetCore.Mvc;
using MvcSample.Web.Models;

namespace MvcSample.Web
{
    public class HomeController : Controller
    {
        public IActionResult Index()
        {
            return View(User());
        }

        public User User()
        {
            User user = new User()
            {
                Name = "My name",
                Address = "My address"
            };

            return user;
        }
    }
}
Get Involved

.NET COMMUNITY
Get Involved

github.com/ASPNET/home

github.com/omnisharp

bit.ly/aspnet5community

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Demo