

FUTURE DECODED

6-7 OTT '16 / MILANO

IN PARTNERSHIP WITH:



CommunityDays.it

www.futuredecoded.it



#FutureDecoded

WEB01 - Sviluppo di applicazioni client-side con ASP.NET Core e Visual Studio 2015

Andrea Merlin
Senior Consultant
andreaM@icubed.it

www.futuredecoded.it

 #FutureDecoded



Prerequisiti

Visual Studio 2015 Update 3

.NET Core 1.0.1 – Visual Studio 2015

ASP.NET Core Template Pack (consigliato)

Node.js

Per altre piattaforme

<https://www.microsoft.com/net/core>

Asp.NET Core – Perché?

Multipiattaforma

Windows, Mac, Linux

Architettura modulare

Eliminata System.Web.dll



Applicazioni leggere, maggiori performance

Asp.NET Core

Dependency Injection (IoC) nativa

Pipeline basata su Middleware (predefiniti e custom)

Publishing su IIS, ma anche su server web integrato (Kestrel)

Web API oppure Web App con Pattern MVC

Integrazione con i più diffusi framework client-side

Asp.NET Core – Struttura

Entry Point definito da una DLL

File di configurazione **project.json**

Middleware integrati:

Static Files

Routing

Authentication

Linea di comando

dotnet new

dotnet restore

dotnet build

Asp.NET Core – Struttura

Content Root

E' il base path per la nostra applicazione
Usata per le View e i contenuti Web

Web Root

- Risorse statiche del progetto accessibili con url relativi
- File css
- Immagini
-

A nighttime cityscape featuring several tall skyscrapers with illuminated windows. In the foreground, a multi-lane highway shows long-exposure light trails from cars, with red trails from taillights and white/yellow trails from headlights. A pedestrian bridge with railings and some greenery runs across the middle ground. The overall scene is a vibrant urban environment at night.

DEMO

.NET Core – WebApp

.NET Core – WebApi

www.futuredecoded.it



#FutureDecoded

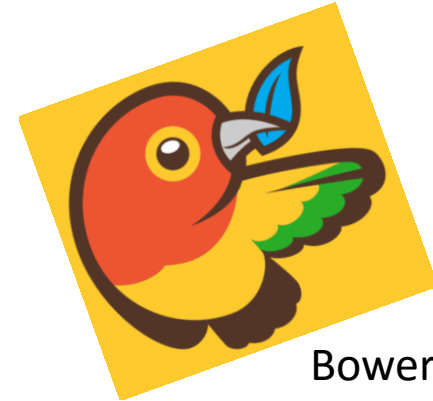
Strumenti moderni per lo sviluppo Web



Grunt



Node.js



Bower



Npm



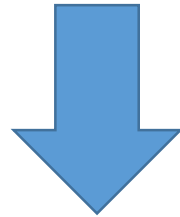
Gulp

Task Runner

Bundle e Minify di file Javascript e CSS

Compilazione di file LESS o SASS per la generazione di CSS

Compilazione di file CoffeeScript / Typescript per la generazione di file Javascript



Automatizzare!

Visual Studio 2015 ci fornisce il supporto per **Gulp** e **Grunt** due Task Runner basati su Javascript

Task Runner

Task eseguiti singolarmente

Task eseguiti manualmente

Task in base ad un determinato evento

- In fase di apertura
- In fase di build
- Al salvataggio di file
- ...

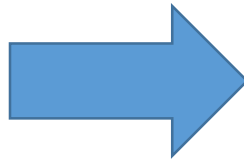
Gulp Vs Grunt

Gulp	Grunt
Semplice da configurare	Configurazione articolata
Molto più veloce nell'esecuzione dei task	Task configurati in base a plugin
Task eseguiti in maniera asincrona	Ampia community
Stream e non file temporanei	Numerosi plugin

Preprocessori CSS - Esempio

```
.header {  
  color: black;  
  font-weight: bold;  
  font-size: 18px;  
  font-family: Helvetica, Arial, sans-serif;  
}
```

```
.small-header {  
  color: black;  
  font-weight: bold;  
  font-size: 14px;  
  font-family: Helvetica, Arial, sans-serif;  
}
```



```
.header {  
  color: black;  
  font-weight: bold;  
  font-size: 18px;  
  font-family: Helvetica, Arial, sans-serif;  
}
```

```
.small-header {  
  .header;  
  font-size: 14px;  
}
```

Visual Studio 2015 supporta Less e Sass

Gulp

- Non fa piu' parte del template standard di Visual Studio
- Necessario scaricare come pacchetto aggiuntivo
- [BundlerMinifier](#) (Visual studio Extension)
 - Minify
 - Bundle and Minify
 - Enable Bundle on build



Grunt

TaskRunner basato su Javascript utilizzato per:

- Minification
- Typescript Compilation
- CSS preprocessor
- Tutte le operazioni ripetitive dello sviluppo web



A nighttime cityscape featuring several tall skyscrapers with illuminated windows. In the foreground, a multi-lane highway shows long-exposure light trails from cars, with red trails from taillights and white/yellow trails from headlights. A pedestrian bridge with railings and some greenery is visible on the right side of the highway. The overall scene is a vibrant urban environment at night.

DEMO

Creazione TaskRunner con Gulp e Grunt

www.futuredecoded.it



#FutureDecoded

Bower



- Package manager per il web
- Consente operazioni di installazione e restore di pacchetti client side:
 - Javascript
 - Css
 - Font

Presente nativamente, ma non viene visualizzato in Visual Studio.

Bootstrap

- Presente nel template standard e nel file bower.json
- Installazione tramite Bower
- Installazione tramite Npm
- Installazione tramite NuGet



A nighttime cityscape featuring several tall skyscrapers with illuminated windows. In the foreground, a multi-lane highway shows long-exposure light trails from cars, with red trails from taillights and white/yellow trails from headlights. A pedestrian bridge with railings and some greenery is visible on the right side of the highway. The sky is dark blue.

DEMO

Utilizzo di Bower e Bootstrap

www.futuredecoded.it



#FutureDecoded

Pubblicazione della soluzione

Pubblicazione su IIS Server

Windows 7 and newer

Windows Server 2008 R2 and newer*

Pubblicazione in Microsoft Azure

Pubblicazione con Docker

- Visual Studio Tools for Docker – Preview
- [Docker for Windows](#)

A night cityscape featuring several tall skyscrapers with illuminated windows. In the foreground, a multi-lane highway is visible with long-exposure light trails from cars, showing red and white streaks. A pedestrian bridge with a railing and some greenery runs across the highway. The overall scene is a vibrant urban environment at night.

Domande?

Materiale su

<http://www.communitydays.it/>

www.futuredecoded.it



#FutureDecoded