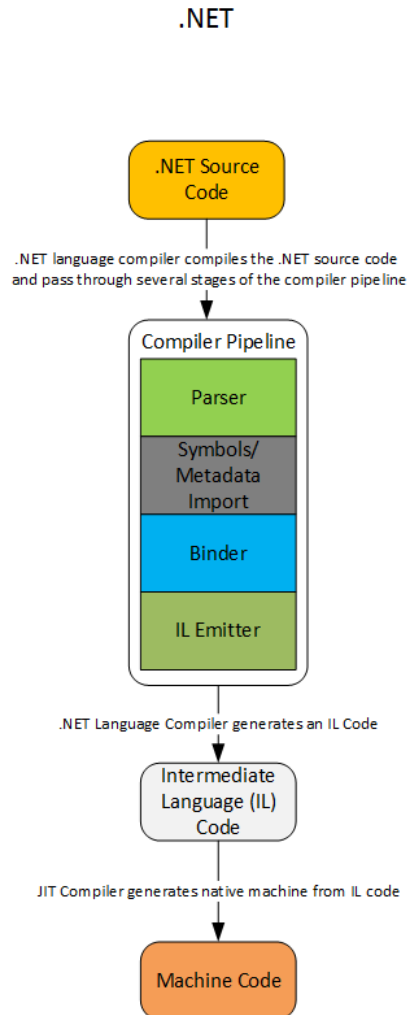
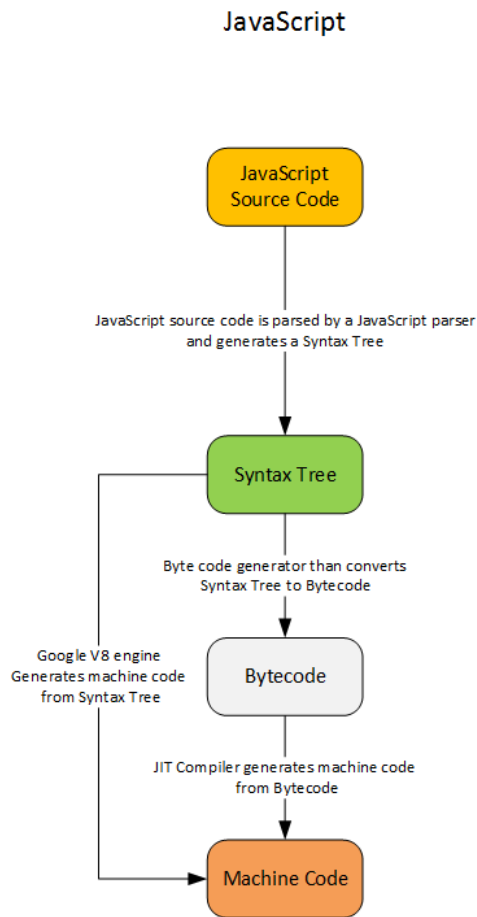


# Chapter 1: JavaScript for Modern Web Applications



```

<head>
  <script type="text/javascript">
    /**
     * This method returns the list of products based on filter criteria
     * @param {string}[name] name of the product
     * @param {string}[desc] description of the product
     * @param {number}[price] price of the product
     * @return {Array} The filtered products
     */
    function FilterProduct(name, desc, price)
  
```

```
FilterProduct("Product1", )
```

Array FilterProduct([String name], [String desc], [Number price])

This method returns the list of products based on filter criteria

**desc:** description of the product

```

</scr
</head>

```

```

Index2.html*
1  <!DOCTYPE html>
2  <html>
3  <head>
4  <script type="text/javascript">
5  function Execute() {
6  //TODO Call service to get data
7
8  }
9  </script>
10 </head>

```

### Task List

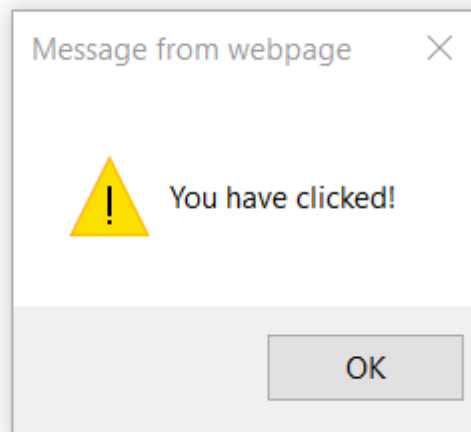
Description	Project	File	Line
TODO Call service to get data		Index2.html	6

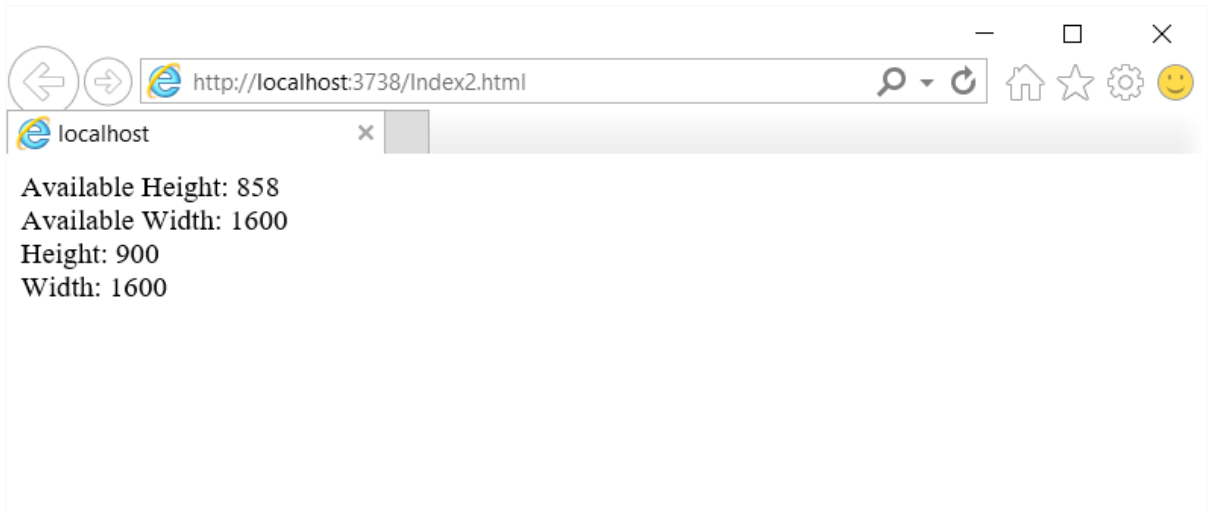
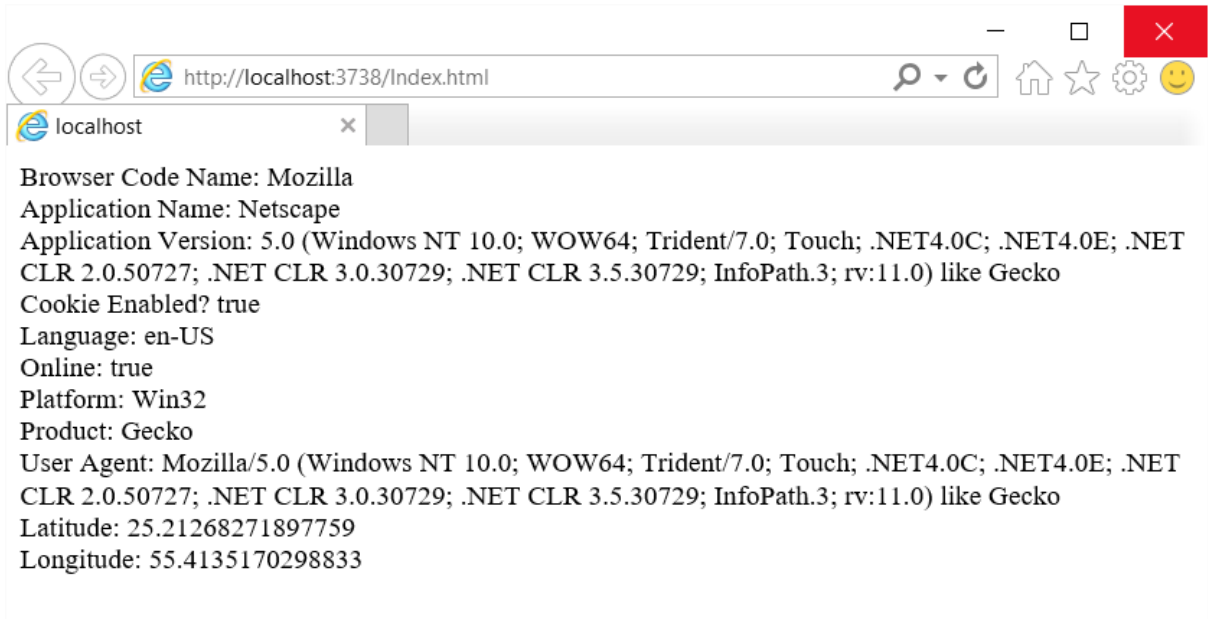
```
<global>
1  /**
2   * This method returns the list of products based on
3   * @param {string}[name] name of the product
4   * @param {string}[desc] description of the product
5   * @param {number}[price] price of the product
6   * @return {Array} The filtered products
7   */
8  function FilterProduct(name, desc, price) {
9      //TODO Call service to Save product
10 }
11
12 function SaveProduct(name, desc, price) {
13     //TODO call service to save product
14 }
```

- TypeScript File
- TypeScript JSX File
- HTML Page
- JavaScript File
- Style Sheet
- Web Form
- Class...

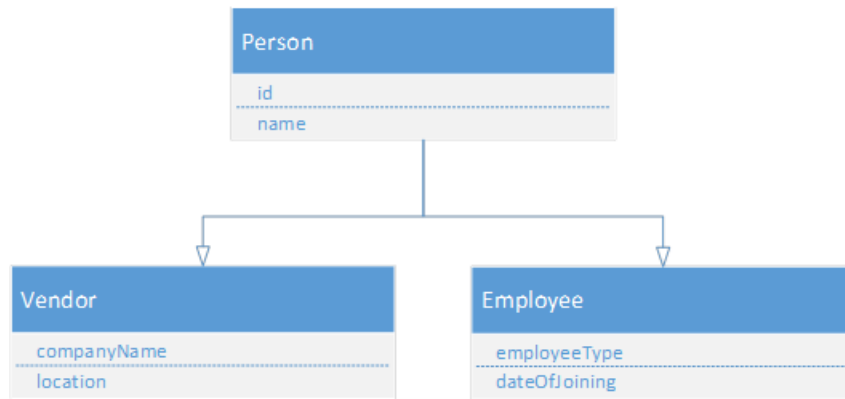
- Publish...
- Configure Azure AD Authentication...
- Add Application Insights Telemetry...
- Scope to This
- New Solution Explorer View
- Show on Code Map
- Add
- Manage NuGet Packages...

[Click here](#)





## Chapter 2: Advanced JavaScript Concepts



---

$$2 * 5 = 10$$

---

---

$$3 * 6 = 18$$

---

## Chapter 3: Using jQuery in ASP.NET

```
"profiles": {  
  "IIS Express": {  
    "commandName": "IISExpress",  
    "launchBrowser": true,  
    "environmentVariables": {  
      "Hosting:Environment": "Development"  
    }  
  },  
  "web": {  
    "commandName": "web",  
    "environmentVariables": {  
      "Hosting:Environment": "Development"  
    }  
  }  
}
```

0  
1  
2

F12 DOM Explorer Console Debugger Network Performance Memory Emulation Experiments

0 0 0 0 X

<h1>Demo </h1>

Index2.html (8,17)

<p>This is a demo of using jQuery for selecting elements</p>

Index2.html (8,17)

<footer> Copyright - JavaScript for .Net Developers </footer>

Index2.html (8,17)

[Index.html](#)

---

```
<h1>Demo </h1>
```

[Index.html \(8,17\)](#)

---

Demo

[Index.html \(8,17\)](#)

---

```
<p>This is a demo of using jQuery for selecting elements</p>
```

[Index.html \(8,17\)](#)

---

This is a demo of using jQuery for selecting elements

[Index.html \(8,17\)](#)

---

```
<footer> Copyright - JavaScript for .Net Developers </footer>
```

[Index.html \(8,17\)](#)

Copyright - JavaScript for .Net Developers

[Index.html \(8,17\)](#)

Name

Learn jQuery

Description

Learn how to use jQuery

Submit

<a href="#">Index.html</a>
HTML
<a href="#">Index.html (9,17)</a>
HEAD
<a href="#">Index.html (9,17)</a>
LINK
<a href="#">Index.html (9,17)</a>
SCRIPT
<a href="#">Index.html (9,17)</a>
SCRIPT
<a href="#">Index.html (9,17)</a>
BODY
<a href="#">Index.html (9,17)</a>
FORM
<a href="#">Index.html (9,17)</a>
DIV
<a href="#">Index.html (9,17)</a>
LABEL
<a href="#">Index.html (9,17)</a>
INPUT
<a href="#">Index.html (9,17)</a>

--select--

USA  
 UK  
 Canada  
 N/A

This is a book for JavaScript for .Net Developers

Enter HTML:

Update Text:



---

**hello world**

Enter HTML:

Update Text:

# This is a plain text

Enter HTML:

Update Text:

**Enter Name:**

**Enter Description:**

Name

Detach/Attach

Detach/Attach

Name

Go to Contacts Page

## Contact.

### Your contact page.

One Microsoft Way

Redmond, WA 98052-6399

P: [425.555.0100](tel:425.555.0100)

**Support:** [Support@example.com](mailto:Support@example.com)

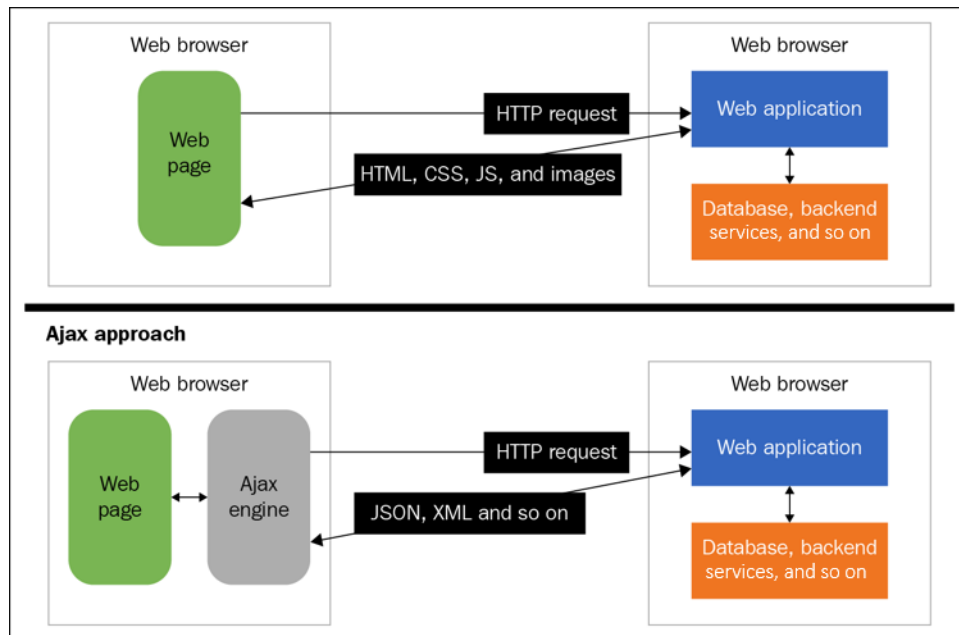
**Marketing:** [Marketing@example.com](mailto:Marketing@example.com)

Description	Name	
Book for .NET Developers	JavaScript for .Net Developers	<a href="#">Edit</a>   <a href="#">Details</a>   <a href="#">Delete</a>
Book for beginners to learn ASP.NET Core 1.0	Beginning ASP.NET Core 1.0	<a href="#">Edit</a>   <a href="#">Details</a>   <a href="#">Delete</a>
All about Design Patterns	Mastering Design Patterns	<a href="#">Edit</a>   <a href="#">Details</a>   <a href="#">Delete</a>

**Name**

**Description**

## Chapter 4: Ajax Techniques



Name

Description

Submit

Success! Data saved successfully



Name

Sample

Description

Sample data

Submit

## Books View

Click on the button to load all the books

Load

## Books View

Click on the button to load all the books

Load

[Create New](#)

Description	Name	
Book for .NET Developers	JavaScript for .Net Developers	<a href="#">Edit</a>   <a href="#">Details</a>   <a href="#">Delete</a>
Book for beginners to learn ASP.NET Core 1.0	Beginning ASP.NET Core 1.0	<a href="#">Edit</a>   <a href="#">Details</a>   <a href="#">Delete</a>
All about Design Patterns	Mastering Design Patterns	<a href="#">Edit</a>   <a href="#">Details</a>   <a href="#">Delete</a>

[Create New](#)

Description	Name	
Book for .NET Developers	JavaScript for .Net Developers	<a href="#">Edit</a>   <a href="#">Details</a>   <a href="#">Delete</a>
Book for beginners to learn ASP.NET Core 1.0	Beginning ASP.NET Core 1.0	<a href="#">Edit</a>   <a href="#">Details</a>   <a href="#">Delete</a>
All about Design Patterns	Mastering Design Patterns	<a href="#">Edit</a>   <a href="#">Details</a>   <a href="#">Delete</a>

JavaScript for .Net Developers  
Beginning ASP.NET Core 1.0  
Mastering Design Patterns

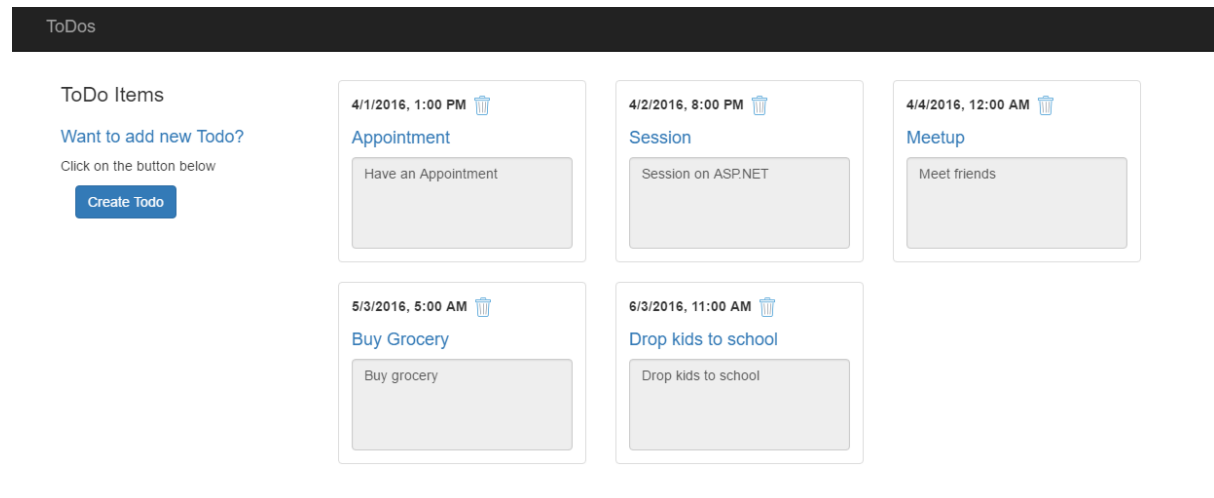
```
<system.serviceModel>
  <serviceHostingEnvironment multipleSiteBindingsEnabled="true" aspNetCompatibilityEnabled="true" />
  <services>
    <service behaviorConfiguration="Default"
      name="WcfService.ProductService">
      <endpoint address="" behaviorConfiguration="webBehavior"
        binding="webHttpBinding"
        contract="WcfService.IProductService" />
      <endpoint contract="IMetadataExchange" binding="mexHttpBinding"
        address="mex" />
    </service>
  </services>
  <behaviors>
    <endpointBehaviors>
      <behavior name="webBehavior">
        <webHttp helpEnabled="true" />
      </behavior>
    </endpointBehaviors>
    <serviceBehaviors>
      <behavior name="Default">
        <serviceMetadata httpGetEnabled="true" />
      </behavior>
    </serviceBehaviors>
  </behaviors>

  <standardEndpoints>
    <webScriptEndpoint>
      <standardEndpoint crossDomainScriptAccessEnabled="true" />
    </webScriptEndpoint>
  </standardEndpoints>

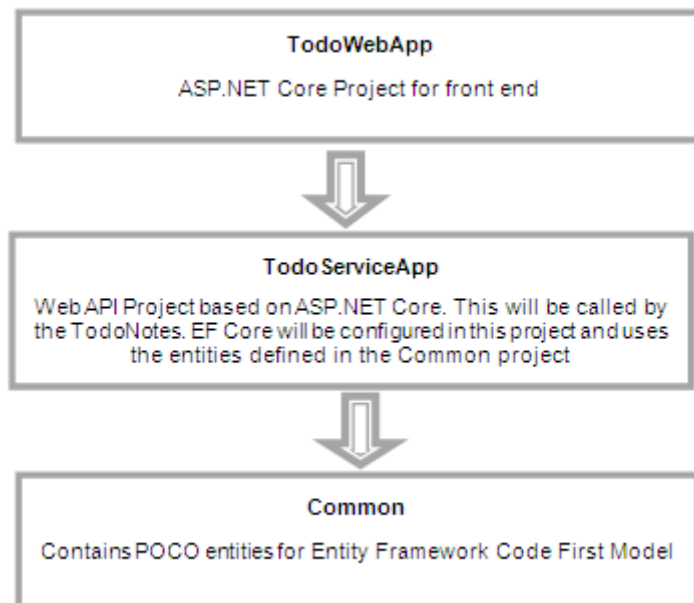
  <httpProtocol>
    <customHeaders>
      <add name="Access-Control-Allow-Origin" value="http://localhost"/>
      <add name="Access-Control-Allow-Headers" value="Content-Type, Accept"/>
      <add name="Access-Control-Allow-Methods" value="POST, GET, OPTIONS"/>
      <add name="Access-Control-Max-Age" value="1728000"/>
    </customHeaders>
  </httpProtocol>

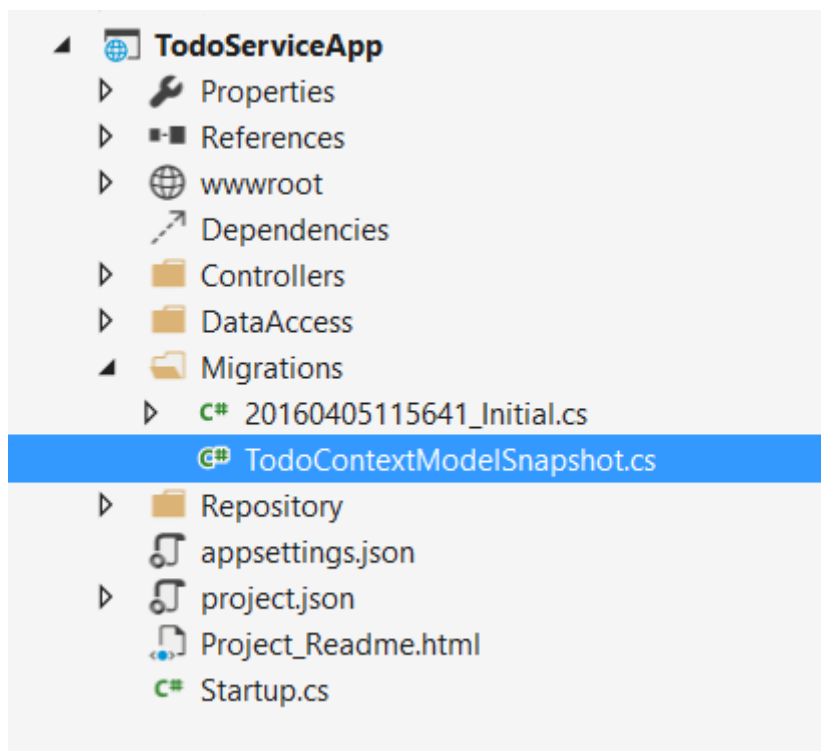
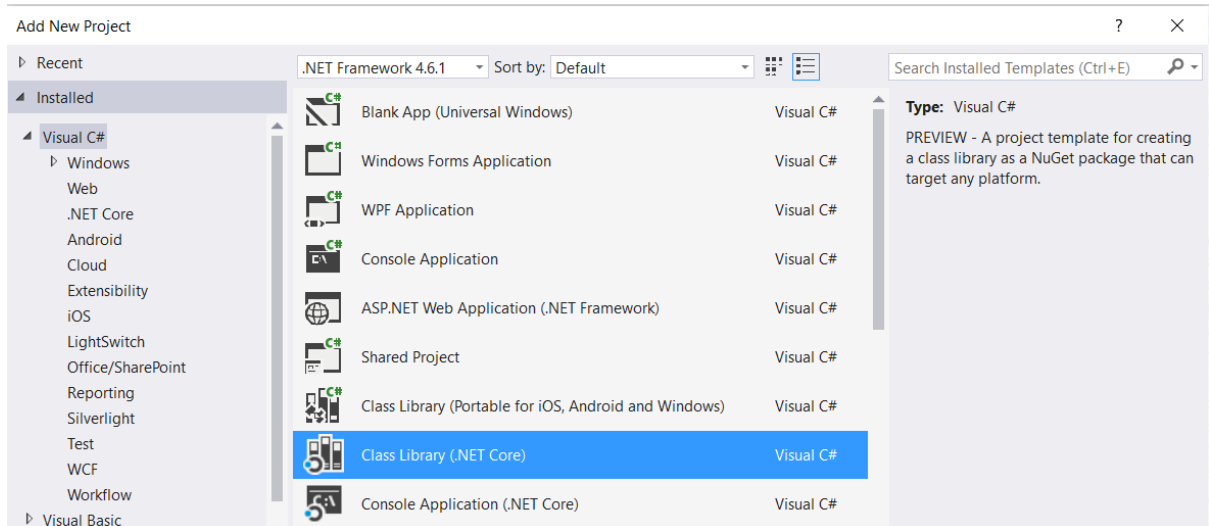
```

# Chapter 5: Developing an ASP.NET Application Using Angular 2 and Web API

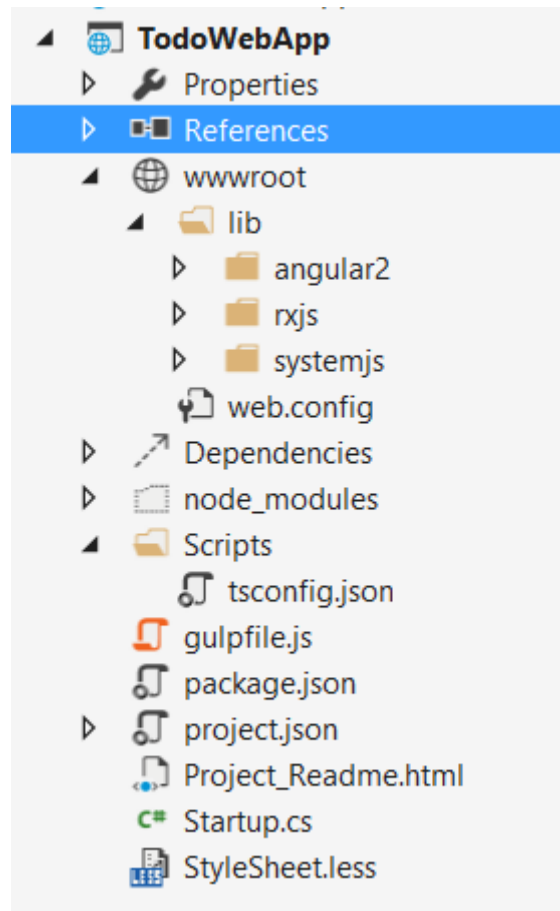


Copyright © Todos 2016










ToDoos

# Hello World

---

Copyright © Todos 2016

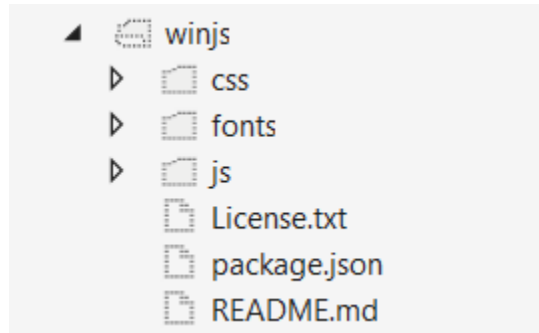
4/1/2016, 1:00 PM 

## Appointment

Have an Appointment

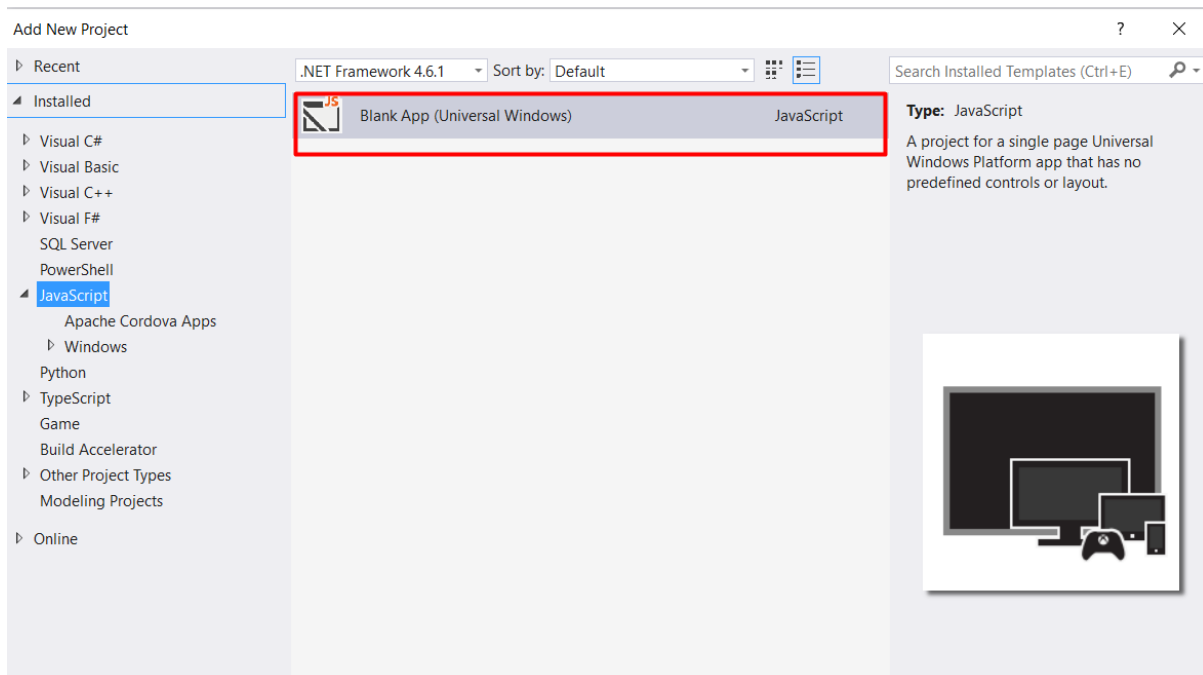
## Chapter 6: Exploring the WinJS Library

```
"dependencies": {  
  "winjs": "4.4.0"  
}
```



Show

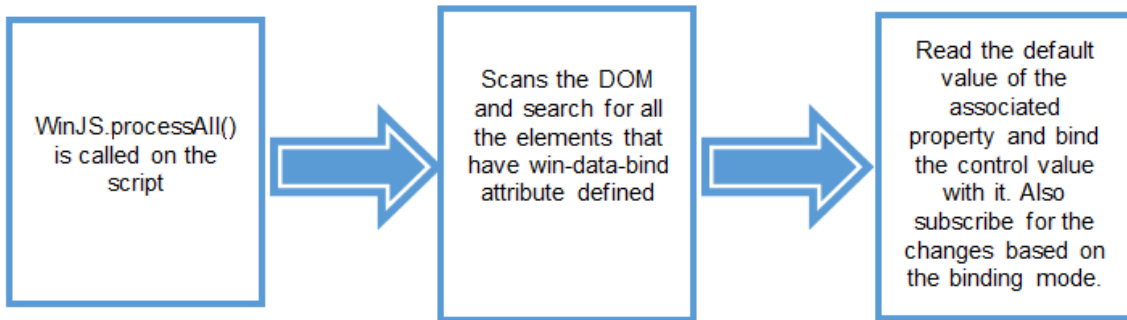
You have clicked!



Function define(Function constructor, **Object instanceMembers**, Object staticMembers)

Defines a class using the given constructor and the specified instance members.

**instanceMembers:** *The set of instance fields, properties, and methods made available on the class.*



2 X 1 = 2

2 X 2 = 4

2 X 3 = 6

2 X 4 = 8

2 X 5 = 10

2 X 6 = 12

2 X 7 = 14

2 X 8 = 16

2 X 9 = 18

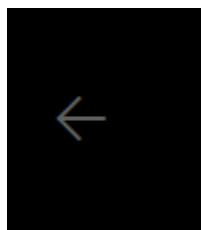
2 X 10 = 20

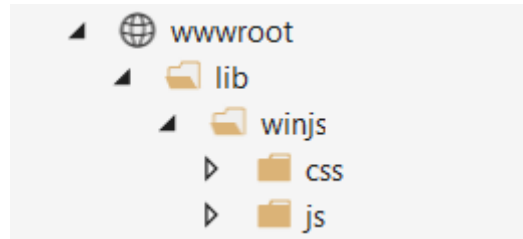
executed table

got the response from promise 1

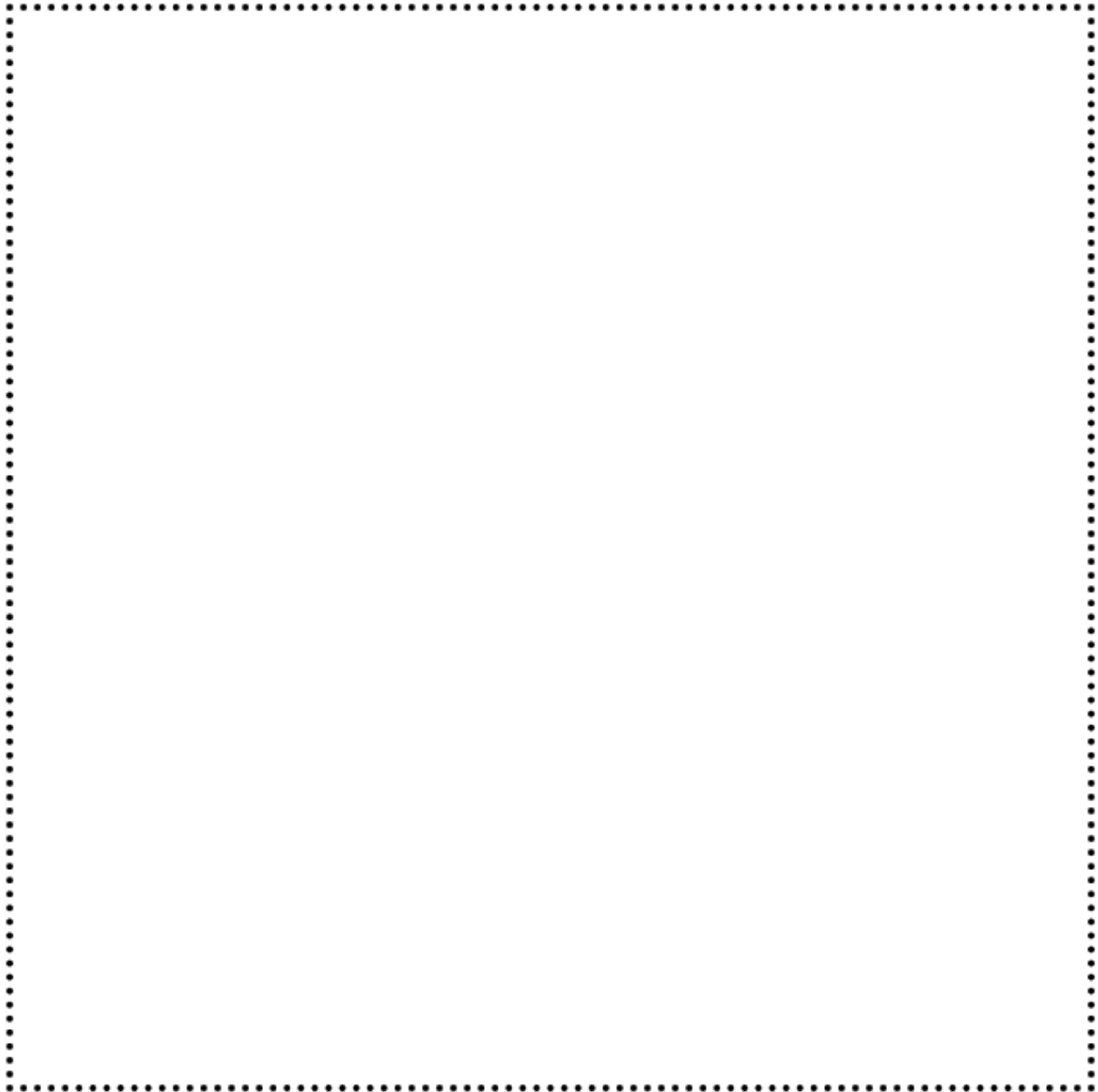
got the response from promise 2

some error occurred, cause: [object XMLHttpRequest]





Click to capture image



New Project

Recent

Installed

Templates

- Visual C#
- Visual Basic
- Visual C++
- Visual F#
- SQL Server
- PowerShell
- JavaScript
  - Blank App (Universal Windows) JavaScript
  - Apache Cordova Apps
  - Windows
  - Python
  - TypeScript
  - Game
  - Build Accelerator
  - Other Project Types
  - Modeling Projects
  - Samples

Online

.NET Framework 4.6.1 Sort by: Default

Search Installed Templates (Ctrl+E)

Type: JavaScript

A project for a single page Universal Windows Platform app that has no predefined controls or layout.

Click here to go online and find templates.

Name: App1

Location: c:\users\ovais\documents\visual studio 2015\Projects

Solution name: App1

Browse...

Create directory for solution

Add to source control

OK Cancel

The properties of the deployment package for your app are contained in the app manifest file. You can use the Manifest Designer to set or modify one or more of the properties.

Application Visual Assets Capabilities Declarations Content URIs Packaging

Use this page to set the properties that identify and describe your app.

Display name: App2

Start page: http://localhost:41345/index.html

Default language: en-US [More information](#)

Description: App2

Supported rotations: An optional setting that indicates the app's orientation preferences.

Landscape  Portrait  Landscape-flipped  Portrait-flipped

Lock screen notifications: (not set)

The properties of the deployment package for your app are contained in the app manifest file. You can use the Manifest Designer to set or modify one or more of the properties.

Application Visual Assets Capabilities Declarations **Content URIs** Packaging

Use this page to specify which URIs can be navigated to by an iframe in your app and which URIs, when loaded in a WebView, can use window.external.notify to send a ScriptNotify event app. (These settings do not affect iframe elements contained within a WebView control.) URIs can include wildcard characters in subdomain names (for example https://\*.microsoft.com or \*.\*.microsoft.com).

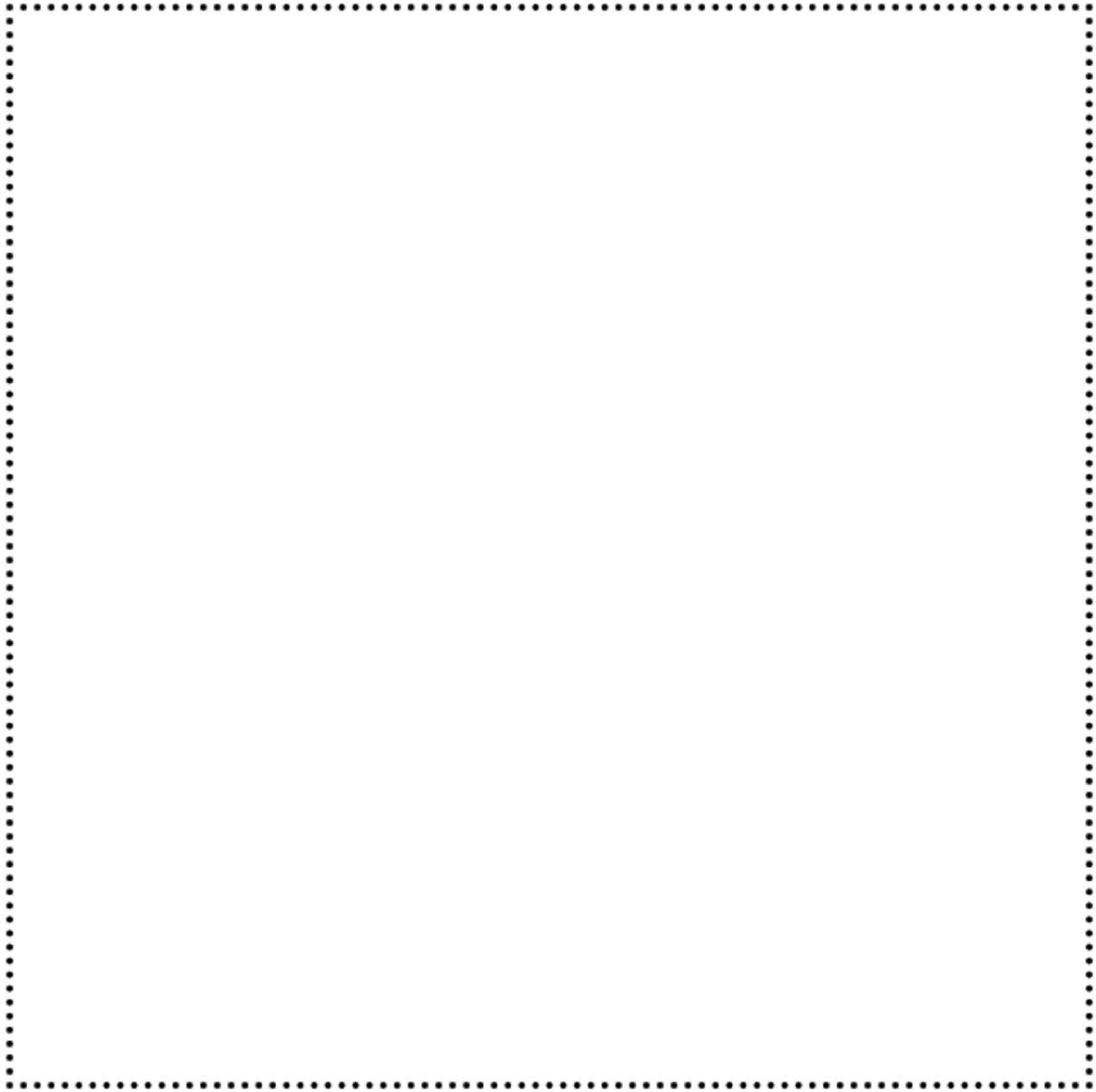
URI: http://localhost:41345/index.html Rule: include WinRT Access: All Remove

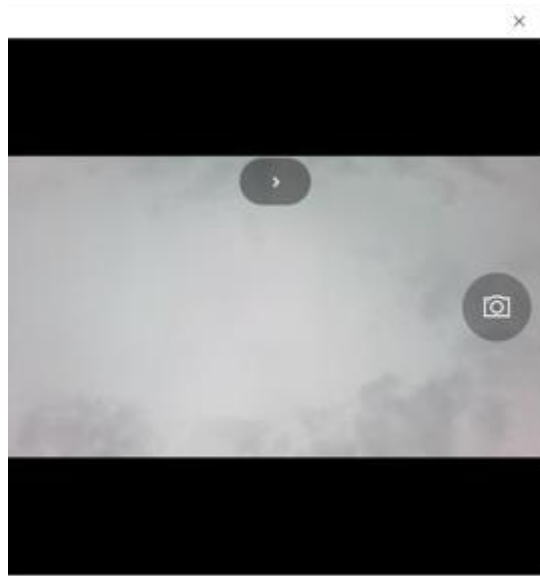
Add new URI

App2

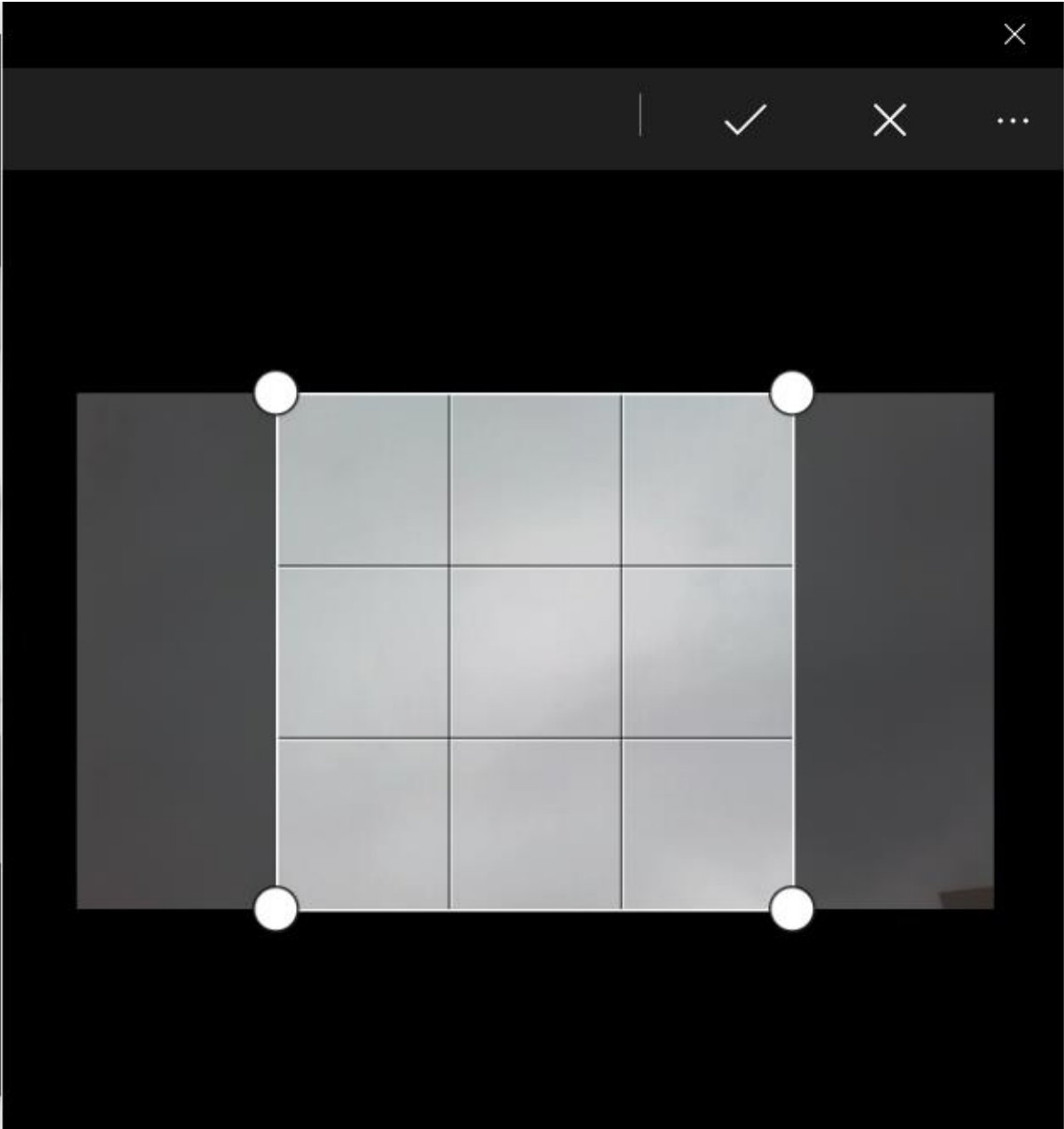


Click to capture image









App2

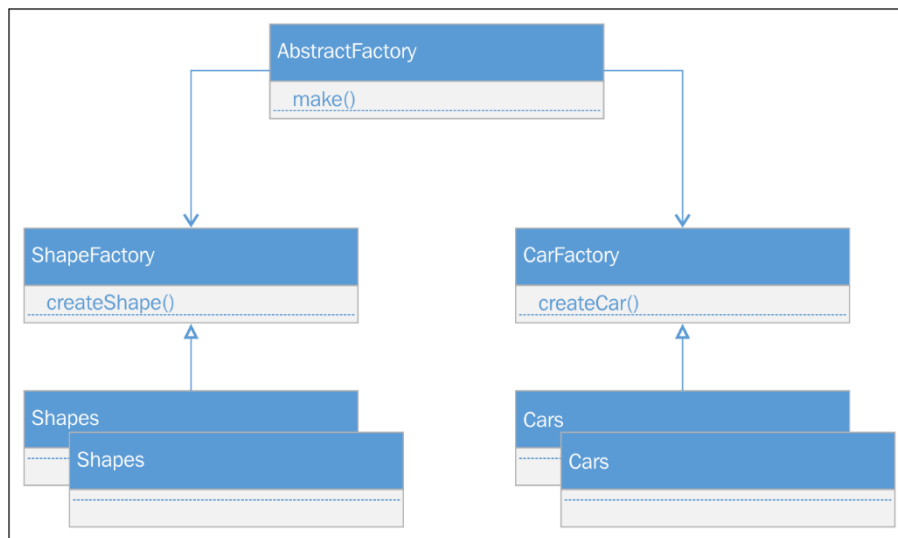
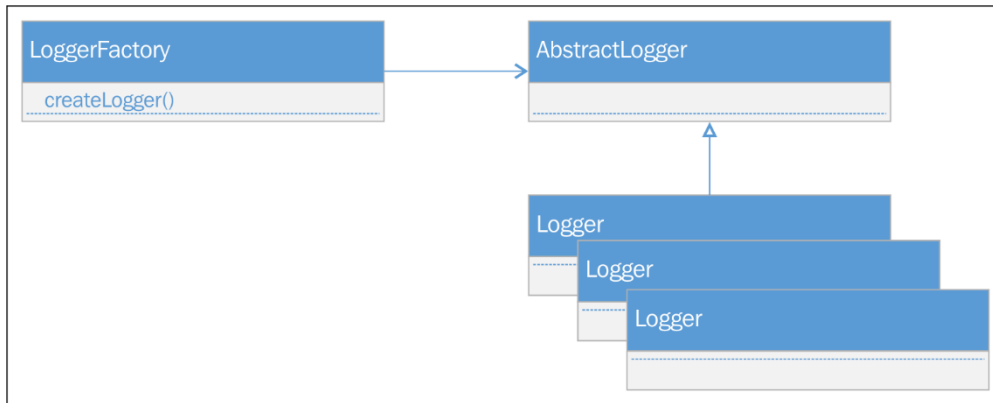


Click to capture image

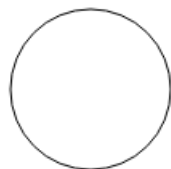
Capture



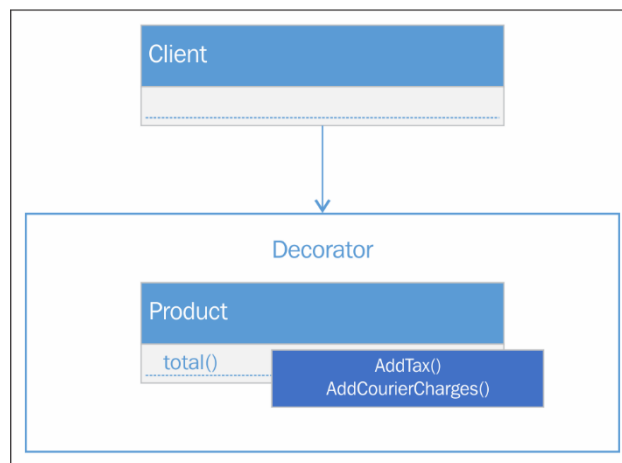
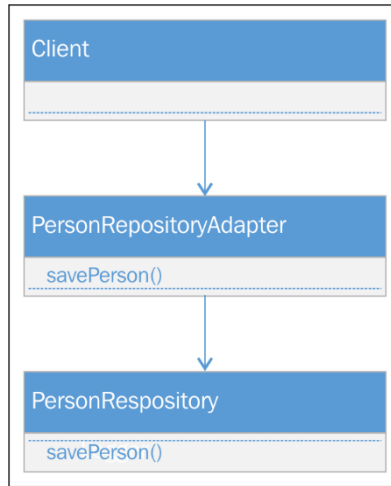
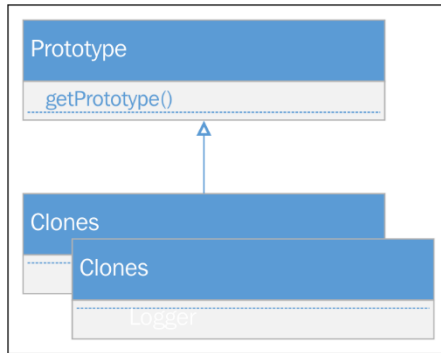
# Chapter 7: JavaScript Design Patterns



Execute



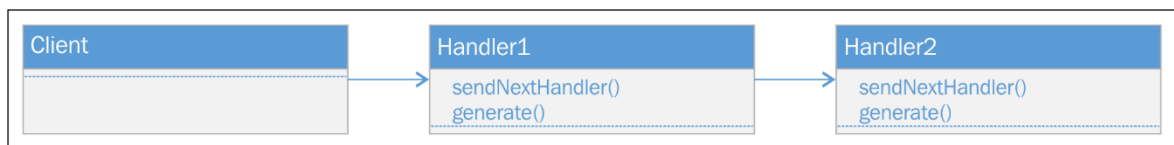
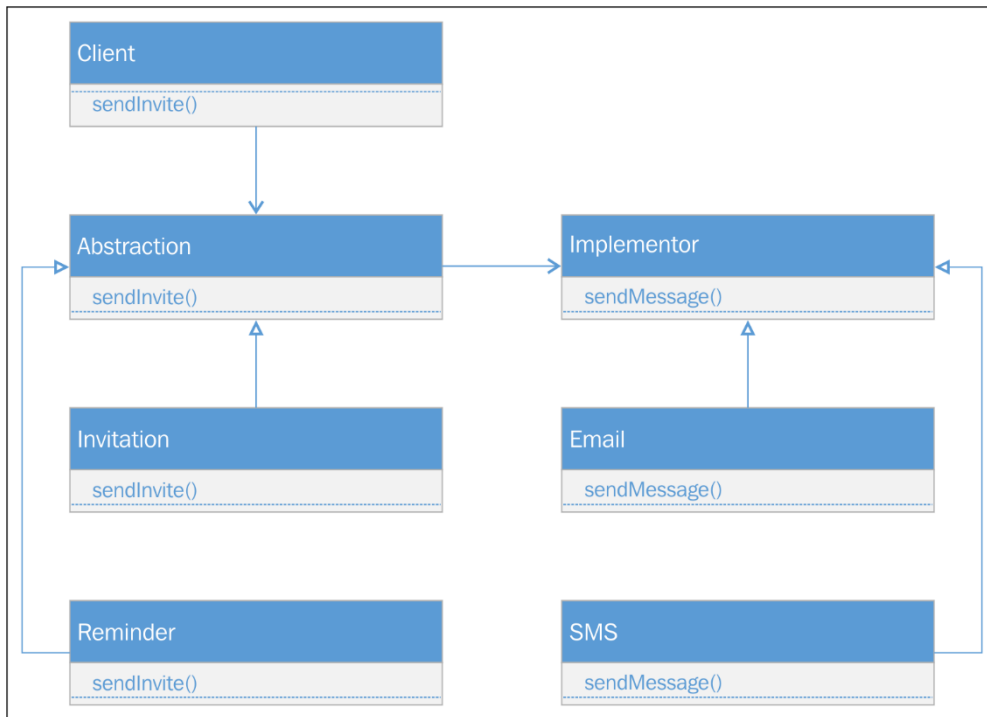
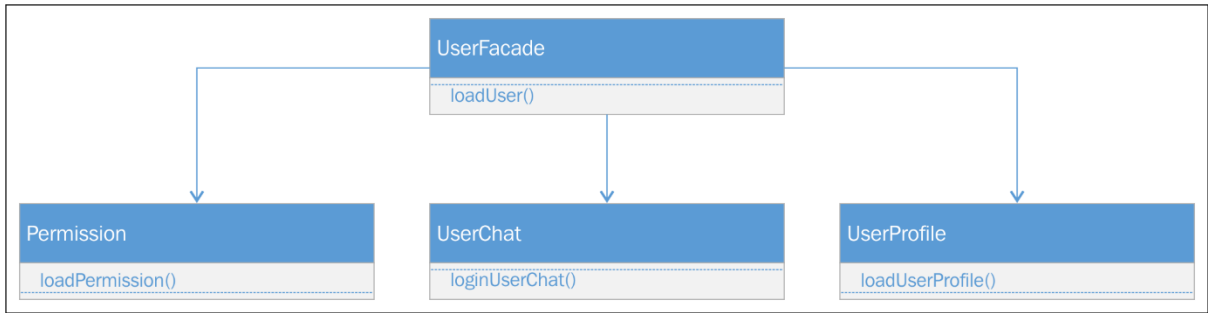
A screenshot of a browser's developer console. The "Console" tab is active. It shows two lines of output: "This is Honda Accord" and "This is Nissan Patrol". There are also icons for "Elements" and "Console", a filter icon, and a "top" link.



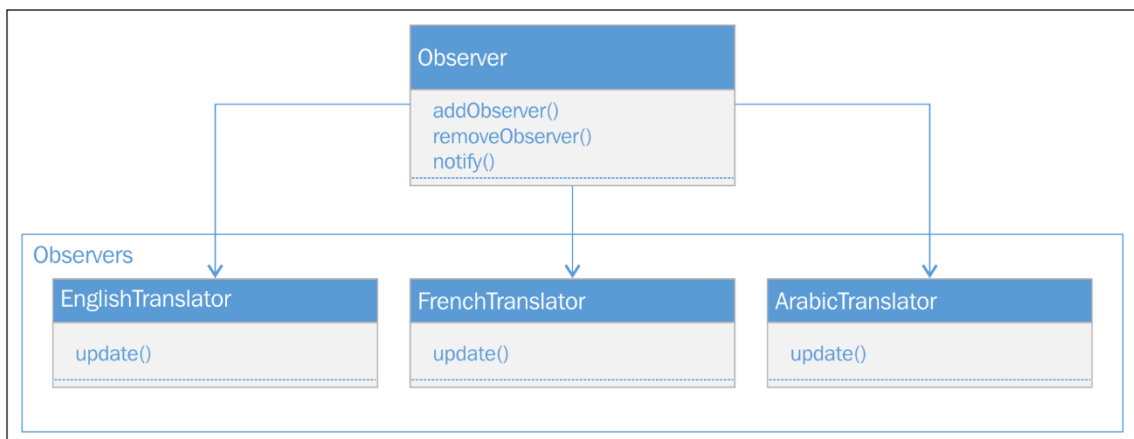
Total price: 40

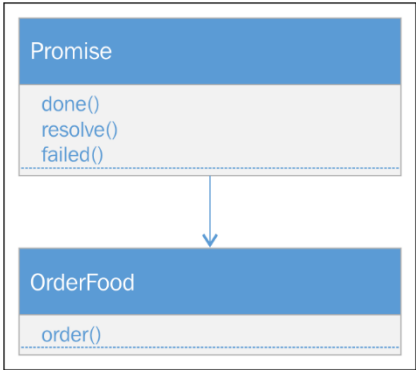
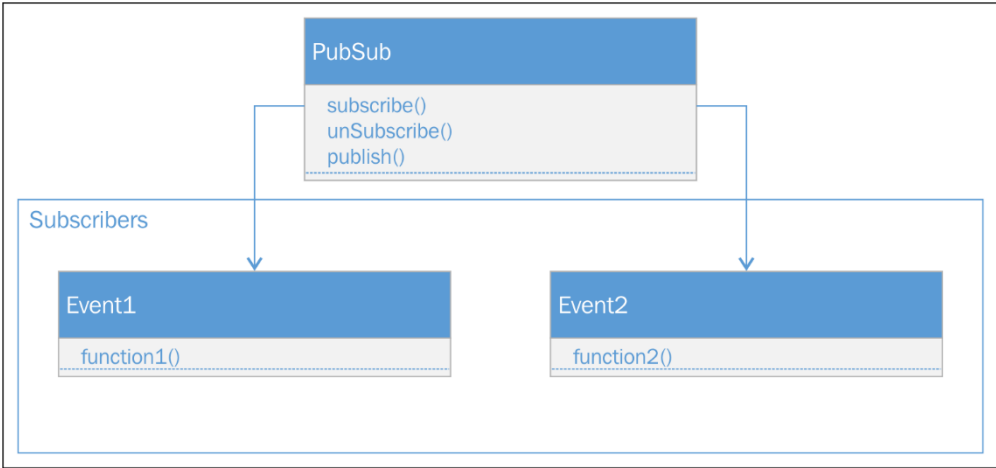
Total price after Tax: 46

Total price after Courier Charges: 246



**Amount is under Head of Department level**





```

//Defining Promise that takes a function as a parameter.
var Promise = function (func) {

    //Declaring local variable
    var callbackFn = null;

    //Expose done function that can be invoked by the object returning promise
    //done() function takes a callback function that copy the function passed as a parameter to the callbackFn
    this.done = function (callback) {
        callbackFn = callback;
    };

    //Delay for 3 seconds and execute callbackFn
    function resolve(value) {
        setTimeout(function () {
            callbackFn(value)
        }, 3000)
    }

    //Here we are actually executing the function defined when intializing the promise below
    func(resolve);
}

//Object that is used to order food and returns a promise
var orderFood = function (food) {
    //returns the Promise and pass function that calls resolve() function that serves the request
    return new Promise(function (resolve) {
        resolve(food);
    });
}

//Initialized orderFood that returns a promise
var order = new orderFood("Grilled Burger");

//Calling done() function that will be invoked once the order is ready
order.done(function (value) {
    console.log(value);
});

```

step 3

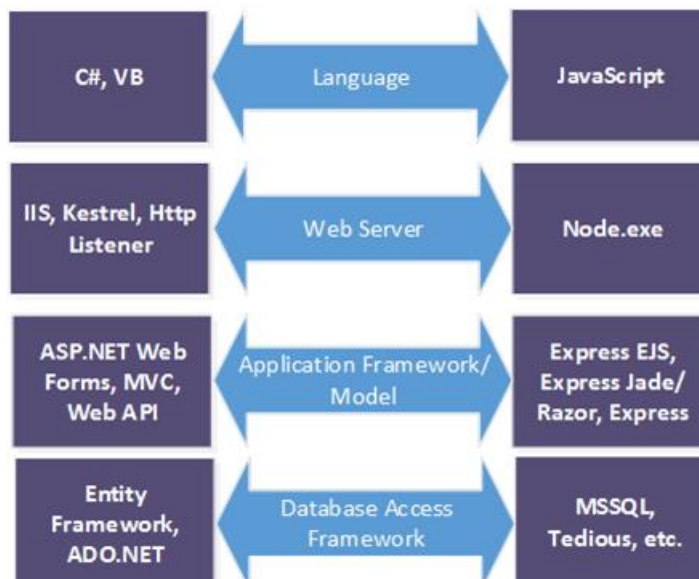
step 2

step 4

step 1

step 5




## Chapter 8: Node.js for ASP.NET Developers



```
{
  "dependencies": {
    "angular2": "2.0.0-beta.9",
    "systemjs": "0.19.24",
    "reflect-metadata": "0.1.3",
    "rxjs": "5.0.0-beta.2",
    "zone.js": "0.6.4"
  },
  "devDependencies": {
    "gulp": "3.8.11",
    "gulp-concat": "2.5.2",
    "gulp-cssmin": "0.1.7",
    "gulp-uglify": "1.2.0",
    "rimraf": "2.2.8",
    "typescript": "1.8.7",
    "concurrently": "2.0.0"
  },
  "name": "nodeconfiguration",
  "version": "0.0.0"
}
```



Download the Node.js source code or a pre-built installer for your platform, and start developing today.

<b>LTS</b> Recommended For Most Users	 Windows Installer <small>node-v4.4.4-x64.msi</small>	 Macintosh Installer <small>node-v4.4.4.pkg</small>	 Source Code <small>node-v4.4.4.tar.gz</small>
--	--	--	---

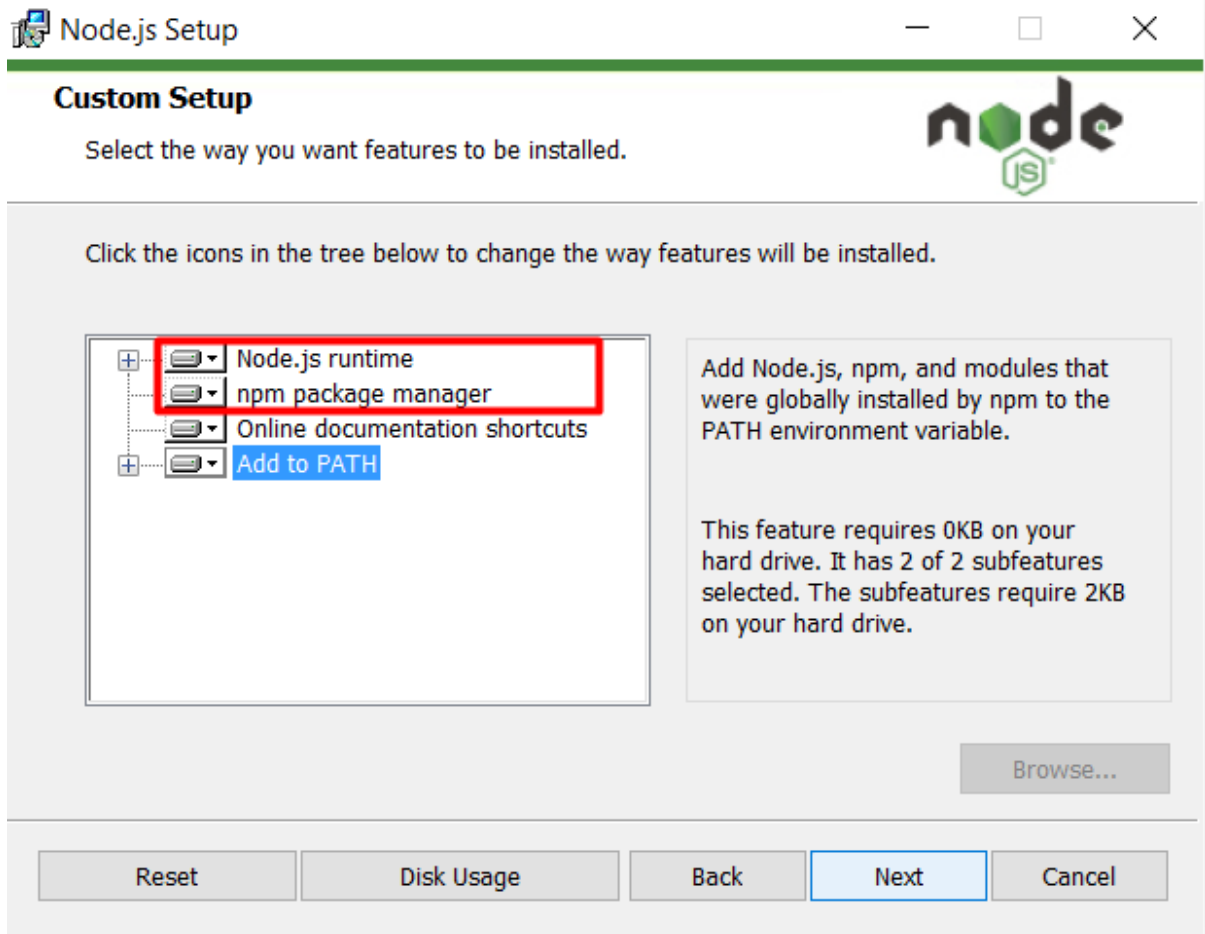
- Windows Installer (.msi)
- Windows Binary (.exe)
- Mac OS X Installer (.pkg)
- Mac OS X Binaries (.tar.gz)
- Linux Binaries (.tar.xz)
- Source Code

32-bit	<b>64-bit</b>
32-bit	64-bit
64-bit	
64-bit	
32-bit	64-bit
node-v4.4.4.tar.gz	

### Additional Platforms

- ARM Binaries (.tar.xz)
- SunOS Binaries (.tar.xz)
- Docker Image
- Linux on Power Systems
- Linux on System z
- AIX on Power Systems

ARMv6	ARMv7	ARMv8
32-bit	64-bit	
Official Node.js Docker Image		
64-bit le Official Node.js release	64-bit be Unofficial, provided by IBM	
Download (Unofficial, provided by IBM)		
Download (Unofficial, provided by IBM)		



**Node.js Setup** Custom Setup

Select the way you want features to be installed.

Click the icons in the tree below to change the way features will be installed.

- Node.js runtime
- npm package manager
- Online documentation shortcuts
- Add to PATH

Add Node.js, npm, and modules that were globally installed by npm to the PATH environment variable.

This feature requires 0KB on your hard drive. It has 2 of 2 subfeatures selected. The subfeatures require 2KB on your hard drive.

Browse...

Reset    Disk Usage    Back    **Next**    Cancel

```
C:\Program Files (x86)\Microsoft Visual Studio 10.0\VC>node
> a=1
1
> str = 'Node Test'
'Node Test'
> b = a + '.' + str
'1. Node Test'
>
```

```
E:\Authoring\Chapter8>node example1.js
NodeJs example
total sum is 300
```

The screenshot shows the 'Extensions and Updates' window in Visual Studio. The search bar contains 'node.js tools'. The results list several extensions, with 'Node.js Tools 1.1 for Visual Studio 2015' highlighted in blue. The right-hand pane shows details for the selected extension, including its creator, download count, and a 5-star rating. A 'Close' button is visible at the bottom right.

Extensions and Updates

Sort by: Relevance

node.js tools

**Node.js Tools 1.2 Alpha 2 For Visual Studio 2015**  
Node.js Tools for Visual Studio (NTVS) is a free, open-source plug-in that turns Visual Studio into a Node.js Integrated Development Environment...

**Node.js Tools 1.1 for Visual Studio 2015** [Download](#)  
Node.js Tools for Visual Studio (NTVS) is a free, open-source plug-in that turns Visual Studio into a Node.js I...

**React.js Starter Kit**  
Web application front-end starter kit built with Reactjs, Bootstrap. It is a cross-platform project template powered by Node.js-based developm...

**VSTS Extension Project Templates**  
This extension contains Visual Studio project templates supplying you with everything you need to create a Visual Studio Team Services exten...

**File Nesting**  
Automatically nest files based on file name and enables developers to nest and unnest any file manually

**vsSolutionBuildEvent**  
Events-Catcher with a variety of advanced Actions for maintenance of your projects and libraries, building processes and processes at runtime...

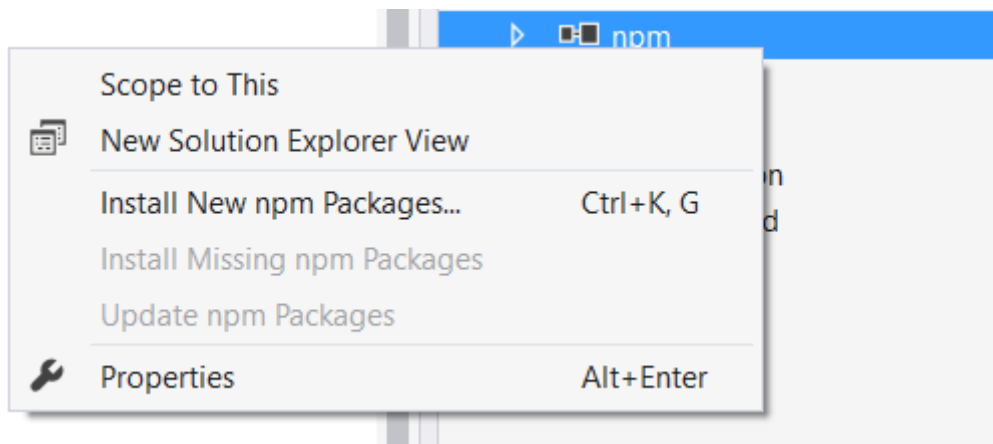
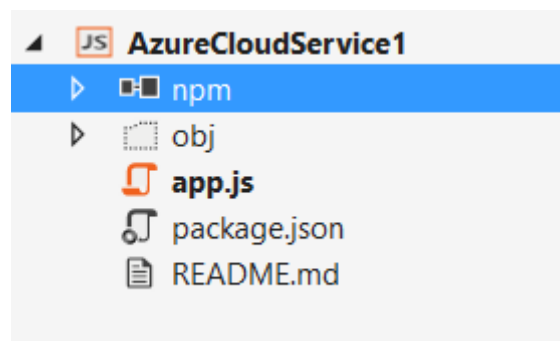
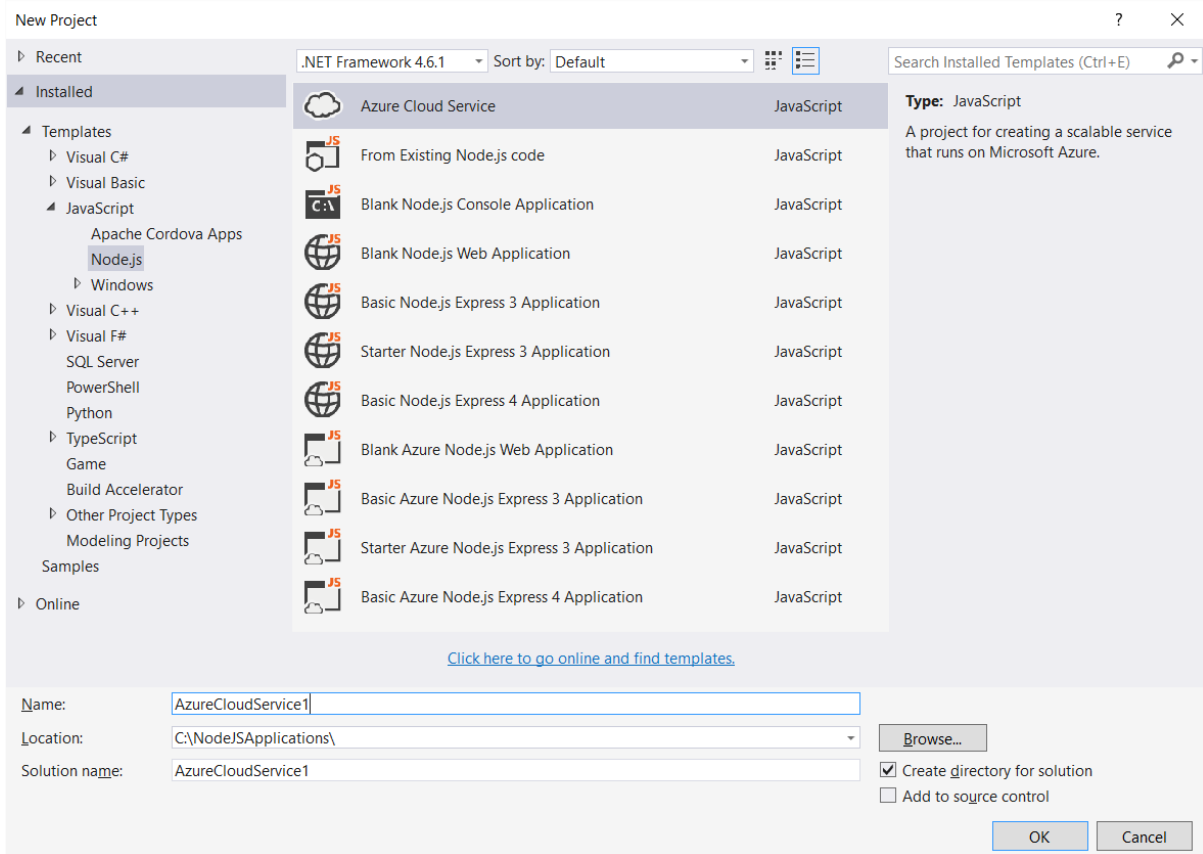
**Developer Assistant**  
Developer Assistant puts millions of code snippets and code sample projects at your fingertips while you are coding in Visual Studio.

Created by: Node.js Tools for Visual Studio  
Downloads: 88210  
Rating: ★★★★★ (5 Votes)  
[More Information](#)  
[Report Extension to Microsoft](#)

1

[Change your Extensions and Updates settings](#)

Close



Install New npm Packages

gulp

- gulp** 3.9.1 Fractal  
The streaming build system
- gulpc** 0.1.2 Kchan Zen  
A tiny wrapper of using coffee-script for gul...
- gulpt** 0.1.2 Jaguard OSS  
gulp CLI wrapper that use 'time-require' to...
- gulpd** 0.0.1-predev.1  
gulp daemon wrapper.
- gulp**i 0.1.2 Dmitry Golubets  
Imperative Gulp compatible task runner bas...

Catalog Updated Today at 7:54 PM Refresh

npm install Output: Ready

### gulp 3.9.1

(This package has no keywords.)

**Author:** Fractal

**Homepage:** <http://gulpjs.com>

**Description:** The streaming build system

#### Options

Dependency type: Standard

Add to package.json:  (recommended)

Selected version: (latest)

Other npm arguments:

Install Package Reset Options

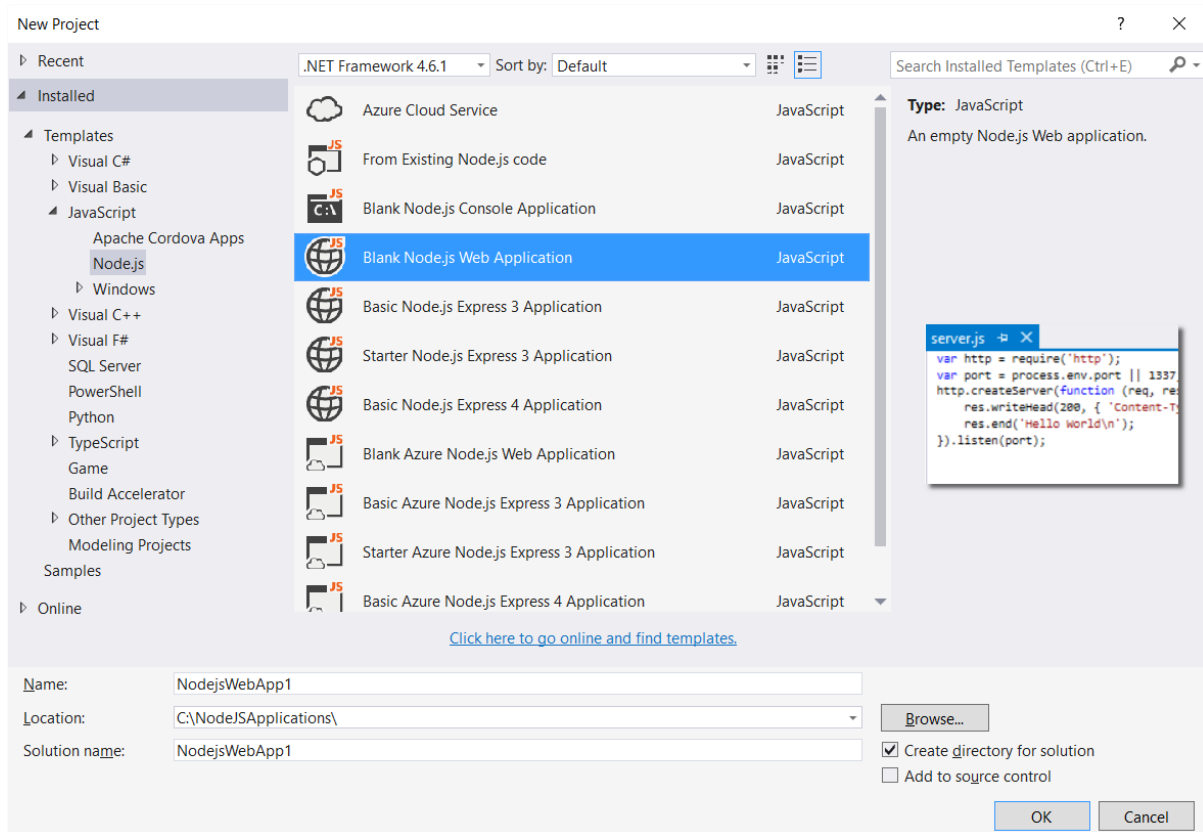
Close

```
Node.js Interactive Window
```

```
> (function Test() {  
  . console.log("Test");  
  . })();  
Test  
undefined  
> |
```

```
{  
  "name": "azure-cloud-service1",  
  "version": "0.0.0",  
  "description": "AzureCloudService1",  
  "main": "app.js",  
  "author": {  
    "name": "Ovais",  
  }  
}
```

```
C:\NodeJSApplications\AzureCloudService1\AzureCloudService1>node app.js
{ cars:
  [ { name: 'Honda Accord', model: '2016', engine: 'V6' },
    { name: 'BMW X6', model: '2015', engine: 'V8' },
    { name: 'Mercedez Benz', model: '2016', engine: 'V12' } ] }
```



```
var http = require('http'); ← Statement 1
```

```
var port = process.env.port || 1337; ← Statement 2
```

```
http.createServer(function (req, res) { ← Statement 3
  res.writeHead(200, { 'Content-Type': 'text/plain' });
  res.end('Hello World\n');
}).listen(port);
```

Install New npm Packages



- Express
- express** 4.13.4 TJ Holowaychuk  
Fast, unopinionated, minimalist web framew...
  - express4** 0.0.1 Fayne Guo  
express4 demo
  - expresse** 1.0.1 blaing@blaing.io  
Simple SSE server middleware for Express
  - expressy** 0.0.6-1  
Little web framework over expressApp/conn...
  - express3** 0.0.0  
Latest version of Express 3 for installing alon...

Catalog Updated 2 days ago

Refresh

npm install Output: Ready

Close

**express** 4.13.4

express, framework, sinatra, web, rest, restful, router, app, api

**Author:** TJ Holowaychuk

**Homepage:** <https://github.com/expressjs/express>

**Description:** Fast, unopinionated, minimalist web framework

**Options**

Dependency type

Add to package.json  (recommended)

Selected version

Other npm arguments

Install Package

Reset Options

Install New npm Packages



- EJS
- ejs** 2.4.1 Matthew Eernisse  
Embedded JavaScript templates
  - ejs2** 2.1.0 Simon Tabor  
EJS v2
  - ejsc** 0.1.0 Fabio Iotti
  - ejson** 2.1.2 Arnout Kazemier  
EJSON - Extended and Extensible JSON libra...
  - ejs-i** 1.2.3 Michael E Roberts Jr.  
Embedded JavaScript templates with dynam...

Catalog Updated 2 days ago

Refresh

npm install Output: Ready

Close

**ejs** 2.4.1

template, engine, ejs

**Author:** Matthew Eernisse

**Homepage:** <https://github.com/mde/ejs>

**Description:** Embedded JavaScript templates

**Options**

Dependency type

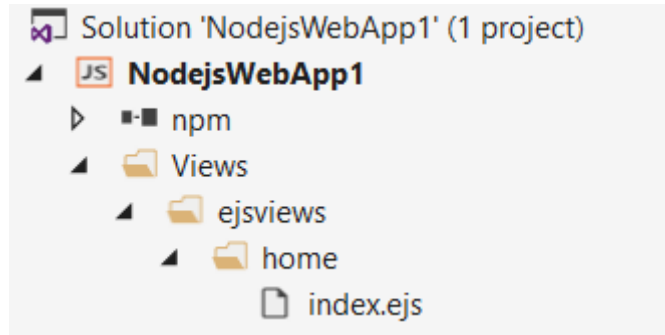
Add to package.json  (recommended)

Selected version

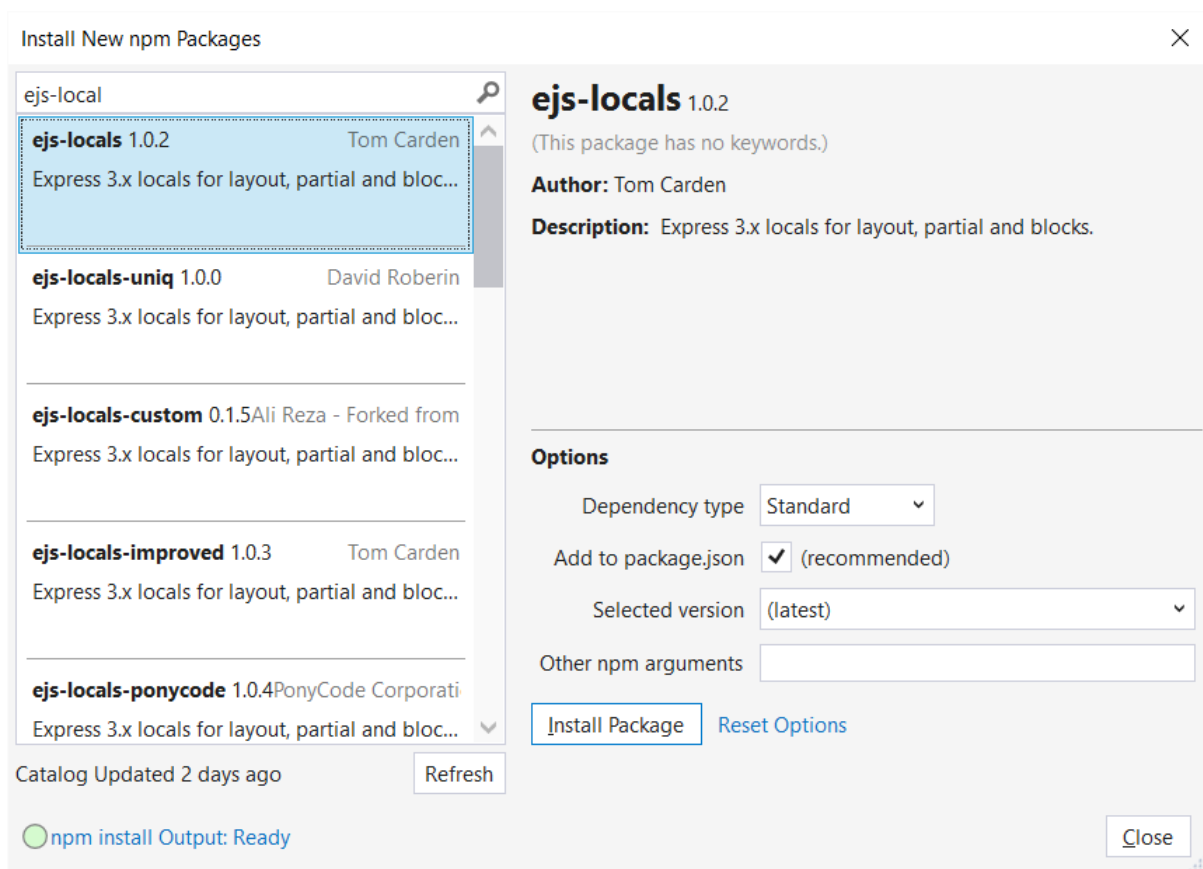
Other npm arguments

Install Package

Reset Options



## This is EJS View



## EJSDemo

This is our first EJS view engine example!

Install New npm Packages ×

jade 🔍

- jade** 1.11.0 TJ Holowaychuk  
A clean, whitespace-sensitive template lang...
- jaden** 0.3.0 Richard A. Jones  
For client-side templating, ultimately what t...
- jader** 0.4.2 Matt McKellar-Spence  
Simple tool to compile and serve Jade, Coff...
- jaded** 0.1.2 Fractal  
Collection of Jade plugins
- jadent** 0.0.10 Satoshi HIRADE  
A command line tool to compile jade temp...

Catalog Updated 2 days ago Refresh

○ npm install Output: Ready Close

**jade** 1.11.0  
(This package has no keywords.)

**Author:** TJ Holowaychuk

**Homepage:** <http://jade-lang.com>

**Description:** A clean, whitespace-sensitive template language for writing HTML

---

**Options**

Dependency type Standard ▾

Add to package.json  (recommended)

Selected version (latest) ▾

Other npm arguments

Install Package [Reset Options](#)

# JadeDemo

This is our first Jade view engine example!



```
C:\Program Files (x86)\nodejs\node.exe
Middleware executed now calling next middleware in the pipeline
```

Middleware executed

# EJS Application

EJS MVC Implementation

- Product1 - 200
- Product2 - 500
- Product3 - 1000

Install New npm Packages



- mssql
- mssql 3.3.0** Patrik Simek  
Microsoft SQL Server client for Node.js.
  - mssqlx 0.0.1** Tom Wilson  
NodeJs Microsoft SQL Server Command Line...
  - mssql-q 1.0.2** Coojee Lin  
A promise realization for mssql.
  - mssql-ng 1.5.1** Michael J. Ryan  
MS-SQL Interface for Next-Generation JavaS...
  - mssql-orm 0.1.4** Tim Macfarlane  
an ORM for MSSQL

### mssql 3.3.0

database, mssql, sql, server, msnodesql, sqlserver, tds, node-tds, tedious, node-sqlserver, sqlserver, msnodesqlv8, azure, node-mssql

**Author:** Patrik Simek

**Homepage:** <https://github.com/patriksimek/node-mssql#readme>

**Description:** Microsoft SQL Server client for Node.js.

#### Options

Dependency type

Add to package.json  (recommended)

Selected version

Other npm arguments

[Reset Options](#)

Catalog Updated 4 days ago

npm install Output: Ready

Install New npm Packages



- body-parser
- body-parser 1.15.1**  
Node.js body parsing middleware
  - body-parser-xml 1.1.0** Tom Spencer  
XML parser middleware for express.js.
  - body-parser-json 1.9.2**  
Node.js body parsing middleware
  - body-parser-bigint 1.13.2**  
Node.js body parsing middleware
  - body-parser-rawbody 1.13.2**  
A clone of the original body-parser that incl...

### body-parser 1.15.1

(This package has no keywords.)

**Homepage:** <https://github.com/expressjs/body-parser#readme>

**Description:** Node.js body parsing middleware

#### Options

Dependency type

Add to package.json  (recommended)

Selected version

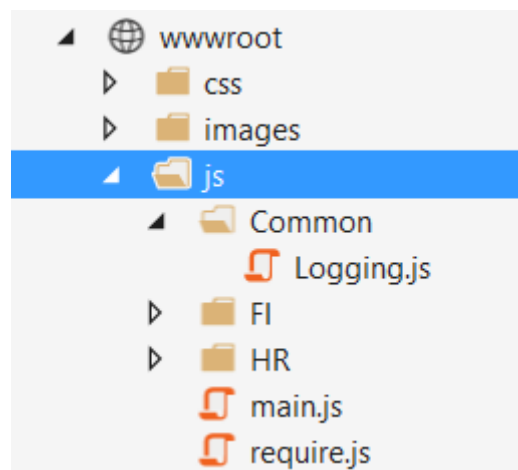
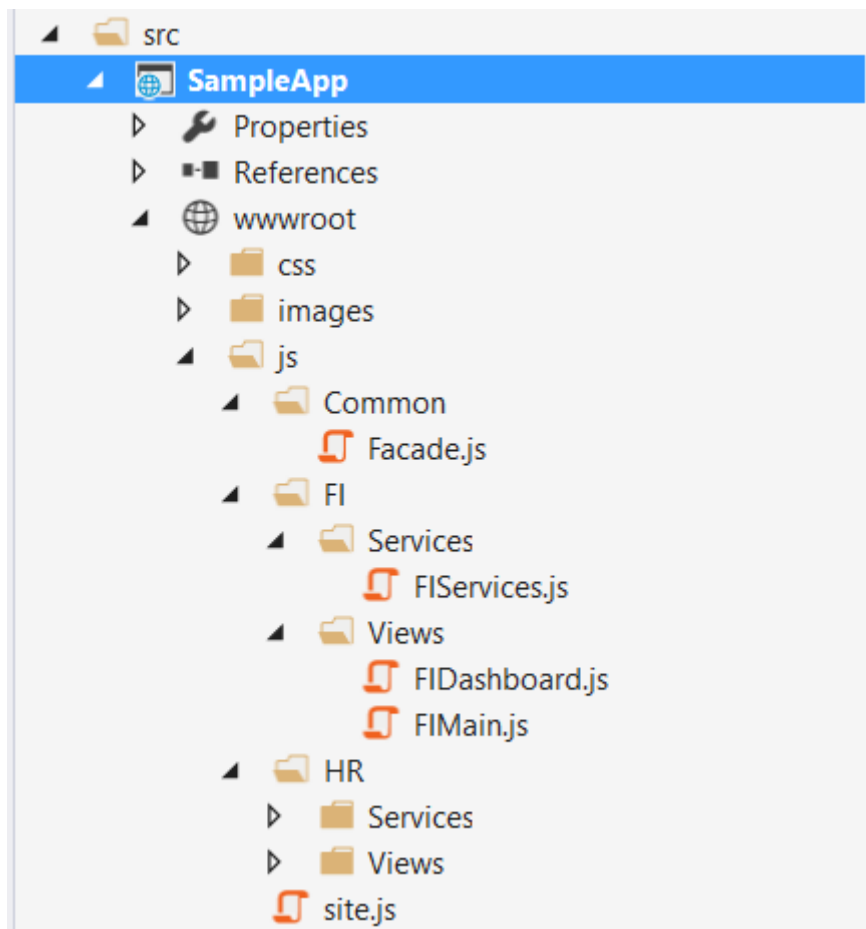
Other npm arguments

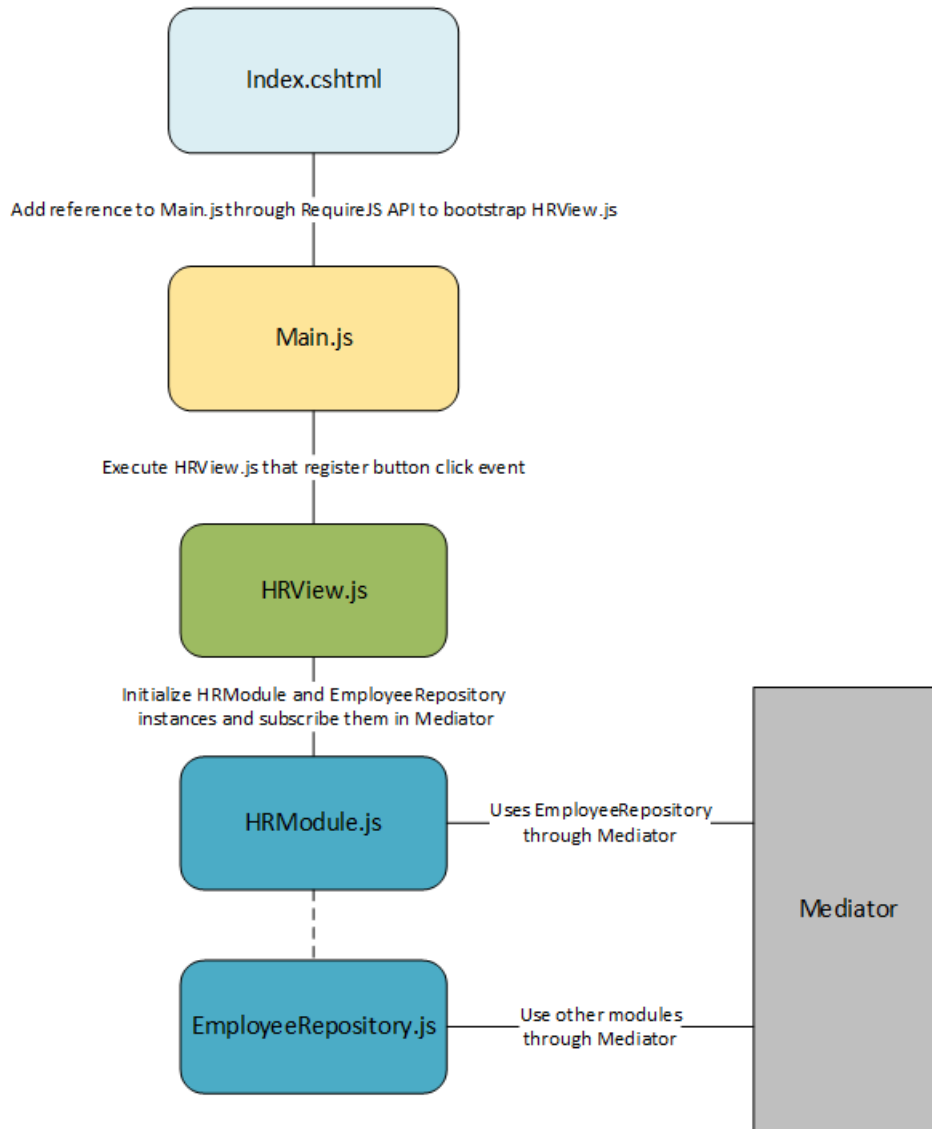
[Reset Options](#)

Catalog Updated 4 days ago

npm install Output: Ready

## Chapter 9: Using JavaScript for Large-Scale Projects





```

{
  "name": "ASP.NET",
  "version": "0.0.0",
  "devDependencies": {
    "gulp": "3.8.11",
    "gulp-jshint": "0.3.0"
  }
}

```

# Class: GetData

## GetData

new GetData(path)

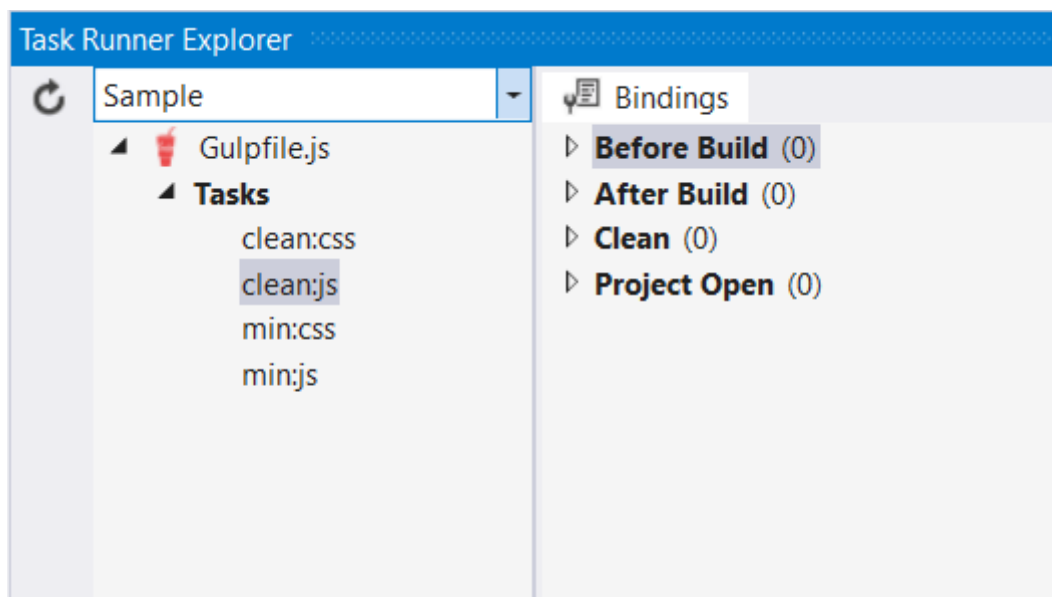
This method is used to retrieve records

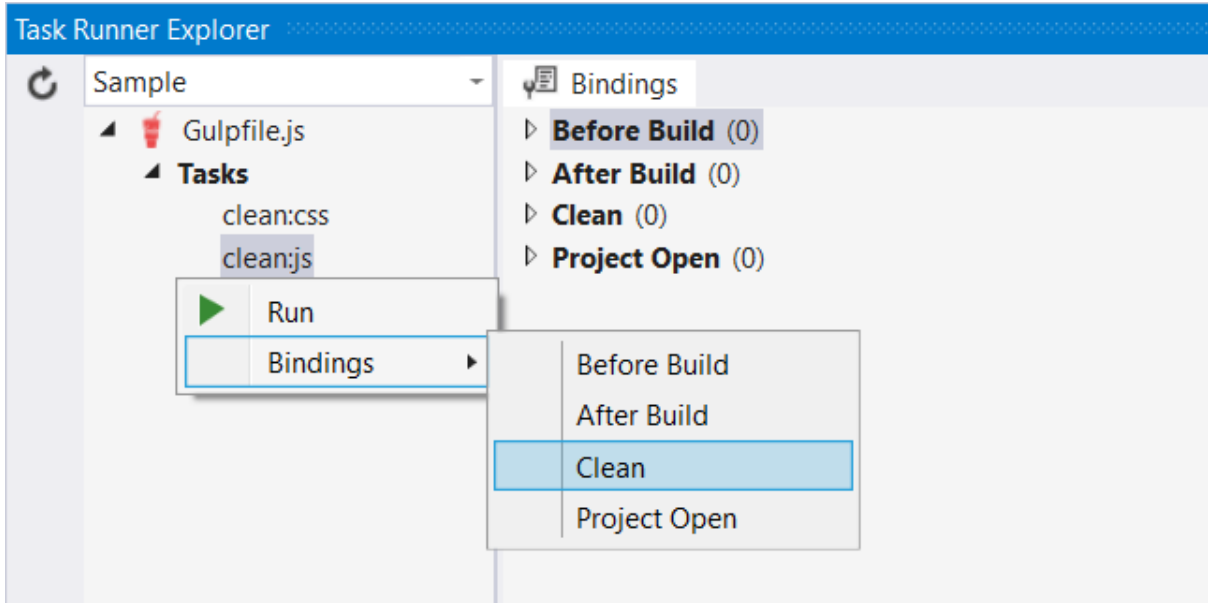
Parameters:

Name	Type	Description
<code>path</code>		Specify URI of the server to get data

Documentation generated by JSDoc 3.4.0 on June 4th 2016, 9:17:22 am using the DocStrap template.

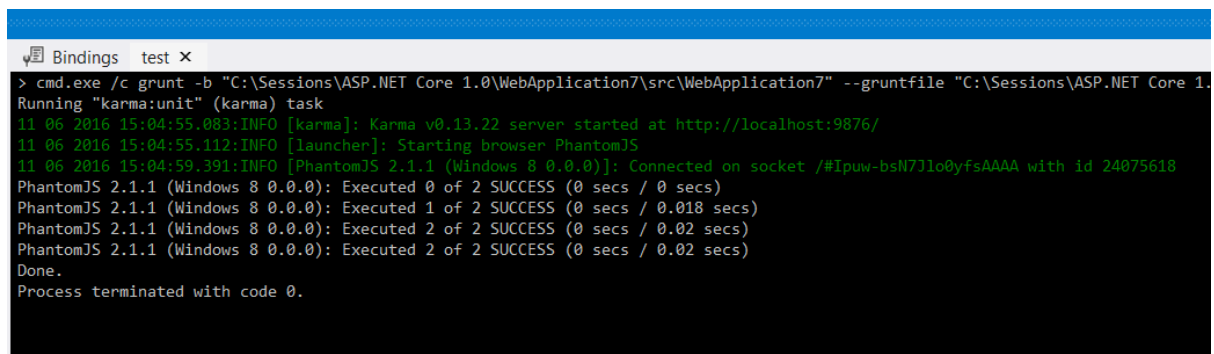
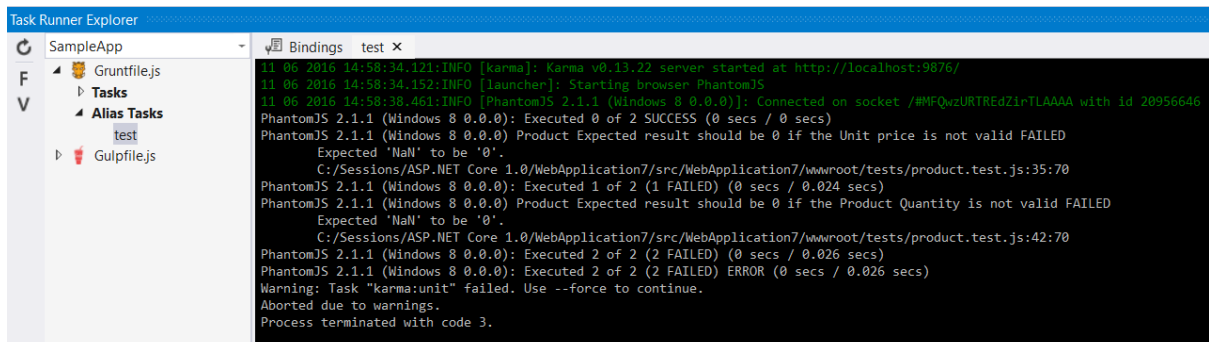
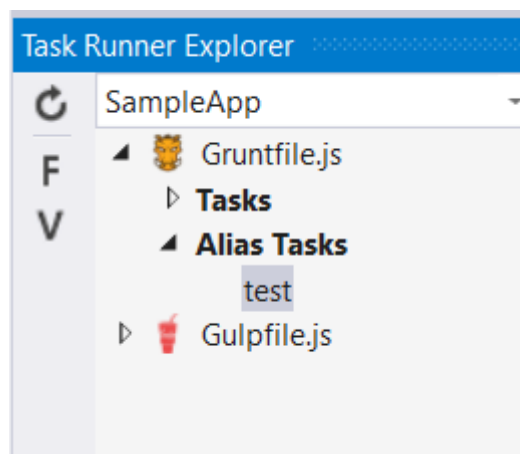
```
{
  "name": "ASP.NET",
  "version": "0.0.0",
  "devDependencies": {
    "gulp": "3.8.11",
    "gulp-concat": "2.5.2",
    "gulp-cssmin": "0.1.7",
    "gulp-uglify": "1.2.0"
  }
}
```

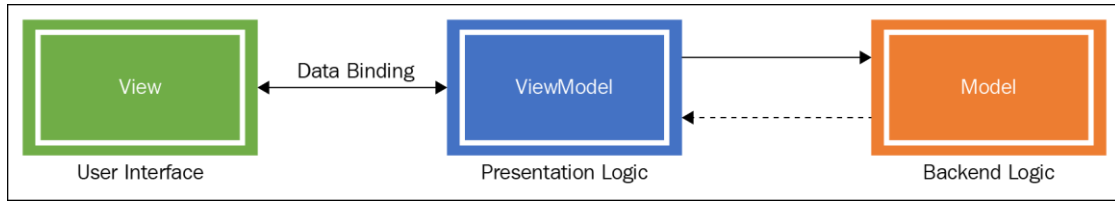




## Chapter 10: Testing and Debugging JavaScript

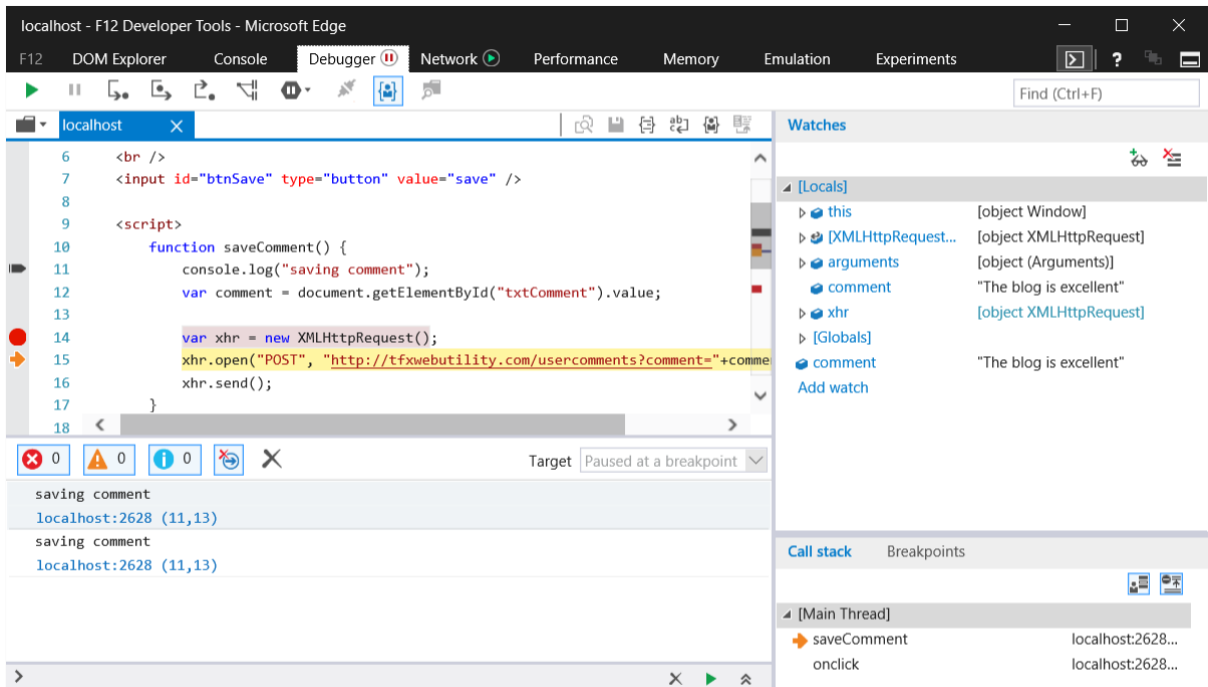
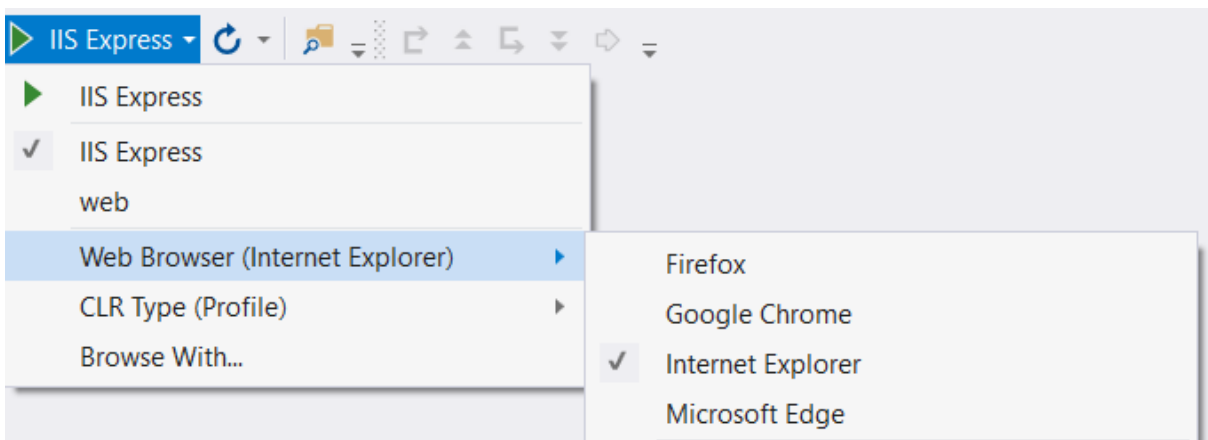
```
{
  "name": "ASP.NET",
  "version": "0.0.0",
  "devDependencies": {
    "grunt": "1.0.1",
    "grunt-karma": "2.0.0",
    "karma": "0.13.22",
    "karma-phantomjs-launcher": "1.0.0",
    "karma-jasmine": "1.0.2",
    "karma-spec-reporter": "0.0.26",
    "karma-cli": "1.0.0"
  }
}
```










```




> cmd.exe /c grunt -b "C:\Users\Ovais\documents\visual studio 2015\Projects\WebApplication32\src\WebApplication32" --gruntfile "C:\Users\Ovais\documents\visual studio 2015\Projects\WebApplication32\src\WebApplication32\Gruntfile.js" karma:unit
Running "karma:unit" (karma) task
17 06 2016 09:52:15.416:INFO [karma]: Karma v0.13.22 server started at http://localhost:9876/
17 06 2016 09:52:15.517:INFO [launcher]: Starting browser PhantomJS
17 06 2016 09:52:20.128:INFO [PhantomJS 2.1.1 (Windows 8 0.0.0)]: Connected on socket /#gBFzJ28q5Skgyh40AAAA with id 91116388
PhantomJS 2.1.1 (Windows 8 0.0.0): Executed 0 of 1 SUCCESS (0 secs / 0 secs)
PhantomJS 2.1.1 (Windows 8 0.0.0): Executed 1 of 1 SUCCESS (0 secs / 0.025 secs)
PhantomJS 2.1.1 (Windows 8 0.0.0): Executed 1 of 1 SUCCESS (0.004 secs / 0.025 secs)
Done.
Process terminated with code 0.
  
```





Call stack      **Breakpoints**

<input checked="" type="checkbox"/>		Index.html (57)	Disable all breakpoints (Ctrl+Shift+F11)
<input checked="" type="checkbox"/>		Index.html (572, 9)	
<input checked="" type="checkbox"/>		Index.html (572, 9)	



```
19      (function () {  
20          debugger;  
21          console.log("adding event");  
22          document.getElementById("btnSave").onclick = function () {  
23              saveComment();  
24          };  
25      })();
```

Disable breakpoint	Ctrl+F9
Condition...	Alt+F9
Go to line...	Ctrl+G
Show next statement	Alt+Num *
Run to cursor	Ctrl+F10
Set next statement	Ctrl+Shift+F10
Add watch	Ctrl+W

### Conditional breakpoint

In the input box, enter the expression to evaluate every time the breakpoint is encountered. If the expression evaluates to 'true' then the debugger will break. The expression is evaluated in the context of the breakpoint location and has access to local variables.

Condition

OK

Cancel



### Message to trace

In the input box, enter the expression or quoted strings that should be traced every time the tracepoint is encountered. E.g., 'The date is ' + new Date()

Trace

OK

Cancel

14  
15  
16  
17

```
var xhr = new XMLHttpRequest();
xhr.open("POST", "http://tfxwebutility.com/usercomments?comment="+comment, true);
xhr.send();
}
```

Calling service to save comment

localhost:2628 (14,13)



Add event tracepoint

### Add event tracepoint

In the trace box, enter the expression or quoted strings that should be traced every time the event is triggered. E.g., 'The date is ' + new Date()

Event

Trace

Add

Cancel



Add event breakpoint

### Add event breakpoint

In the condition box, you can enter an optional expression to evaluate every time the event is triggered. If the expression evaluates to 'true' then the debugger will break. The expression is evaluated in the context of the break location and has access to local variables.

Event

Condition

Add

Cancel

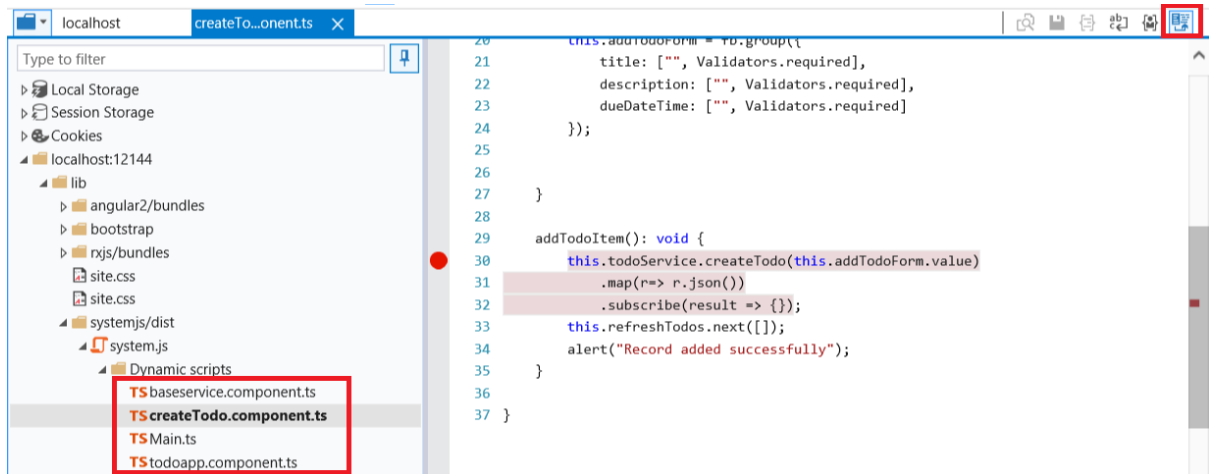


Add XMLHttpRequest breakpoint

Call stack **Breakpoints**



XMLHttpRequest response event



```
(function () {
    debugger;
    document.getElementById("btnSave").onclick = function () {
        saveComment();
    };
})();
</script>
```