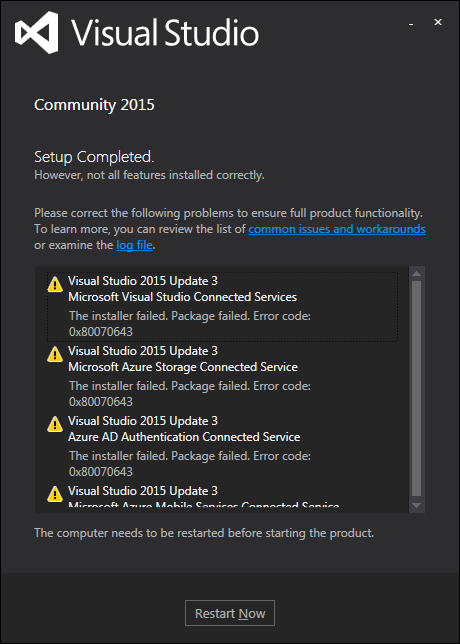
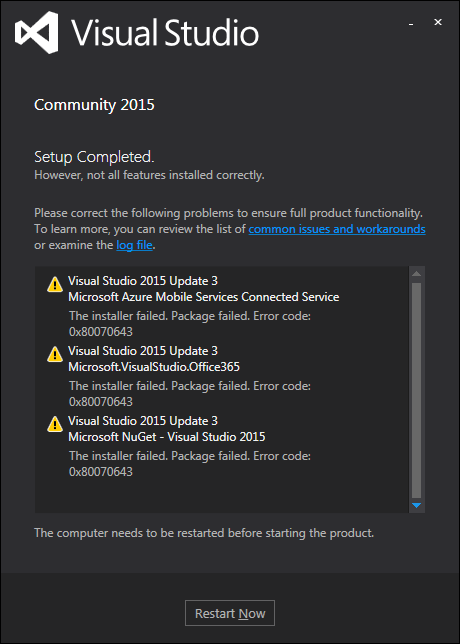
**Step to use VS 2015 with Git**

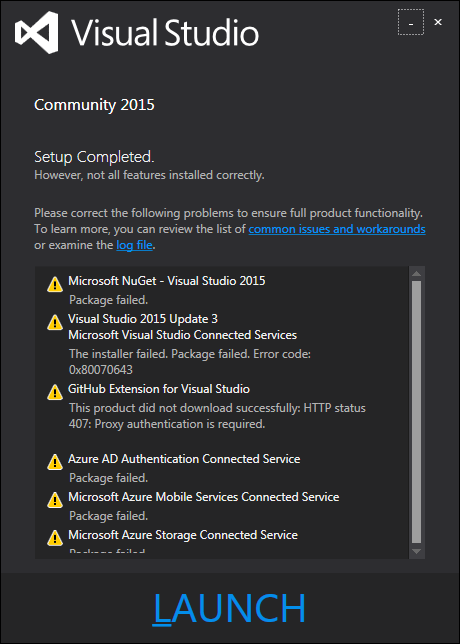
1. Install VS2015 [\\ha4-sa2-w01\VS2015](file:///\\ha4-sa2-w01\VS2015)

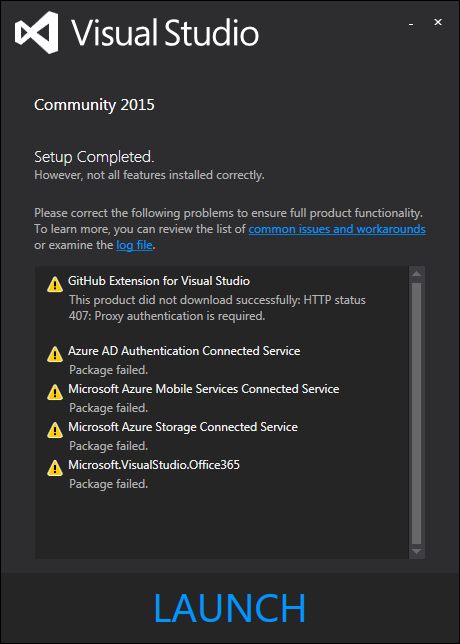
The following error will be occurred.





Installation result on 15





1. As VS 2015 Update 3 failed to install, we need to repair VS 2015 to re-install back.

Otherwise, Tooling Preview component cannot be installed.

Go to control panel

Choose VS 2015 > Press Change button

Choose Modify button at bottom

Choose VS 2015 Update 3 only

Choose Repair?

1. Install the NuGet component for VS 2015 manually

Download Mircosoft .NET Core 1.0.1 VS 2015 Tooling Preview 2

<https://www.microsoft.com/net/core#windowsvs2015>

Close all instances of Visual Studio

Go to C:\Program Files (x86)\Microsoft Visual Studio 14.0\Common7\IDE\

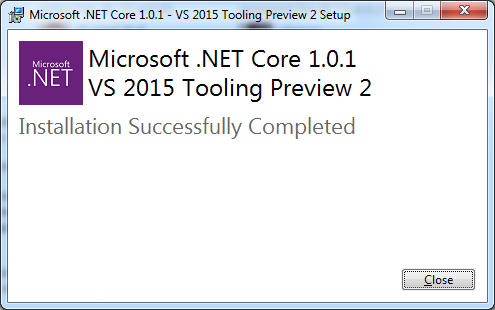
Renamed Extensions to Extensions\_renamed

Go to [\\ha4-sa2-w01\VS2015](file:///\\ha4-sa2-w01\VS2015\cab)

Install the NuGet.Tools.vsix (don’t install it through Visual Studio)

(don’t use the install file under cab directory)

Install DotNetCore.1.0.1-VS2015Tools.Preview2.0.3.exe



Open the renamed extensions folder

Move all of the non-NuGet extensions into the new Extensions folder

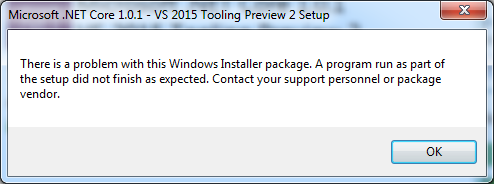
Open Viusal Studio and check if NuGet installed and working

Open New Project to check if .NET CORE template installed

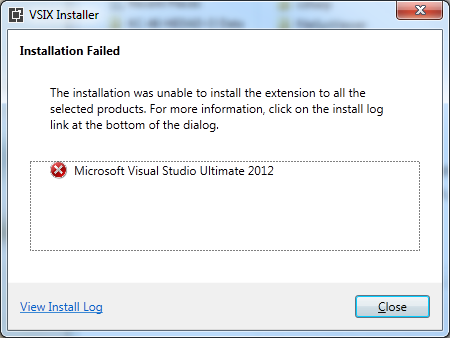
Restart OS may require

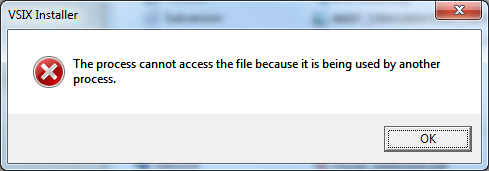
**Common installation error**

1. Problem encountered during installation



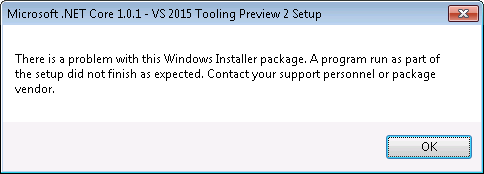
1. Installation failed when update the NuGet extension in Visual Studio





1. .NET CORE template cannot be found when create new project

When installing NuGet got this problem…..



1. Create Git account <https://www.github.com/>
2. Download the portable version of Git and unzip it to C:\Program Files\Microsoft Visual Studio 14.0\Web\External\PortableGit

<https://git-scm.com/download/win>

Add C:\Program Files\Microsoft Visual Studio 14.0\Web\External\PortableGit\bin to your PATH

1. Sign in VS 2015 with Community account

Create the dll file with your proxy password OR

Download file from [\\ha4-sa2-w01\Downloads\VS2015\HAAuthProxy.dll](file:///\\ha4-sa2-w01\Downloads\VS2015\HAAuthProxy.dll)

Copy the file to C:\Program Files\Microsoft Visual Studio 14.0\Common7\IDE

Update the config file

C:\Program Files\Microsoft Visual Studio 14.0\Common7\IDE\devenv.exe.config

<system.net>

    <defaultProxy>

      <module type="HAAuthProxy.AuthProxyModule, HAAuthProxy"/>

    </defaultProxy>

  </system.net>

1. Go through this tutorial

<https://docs.microsoft.com/en-us/aspnet/core/tutorials/first-mvc-app/start-mvc>

1. Download the shared project to local

dotnet ef database update

1. To check the git configuration

Go to C:\Program Files\Microsoft Visual Studio 14.0\Web\External\PortableGit

git config -l

**Reference:**

How to login VS 2015 with proxy connection

<https://blogs.msdn.microsoft.com/rido/2010/05/06/how-to-connect-to-tfs-through-authenticated-web-proxy/>

**Visual Studio ASP.NET MVC Tutorial**

<http://www.tutorialsteacher.com/mvc/viewdata-in-asp.net-mvc>

**Library used by Calendar application**

<http://getbootstrap.com/components/> for the whole responsive UI

<https://eonasdan.github.io/bootstrap-datetimepicker/>  for Datetime Picker

<https://github.com/bootstrap-tagsinput/bootstrap-tagsinput> for Input comma delimited fields

<https://github.com/jonmiles/bootstrap-treeview> for the Treeview on the left

**Branching model for Calendar application**

<http://nvie.com/posts/a-successful-git-branching-model/>



There should be master, dev and other branch for each new feature.

1. we browse to the latest version in dev branch

git checkout **dev**  
2. we create a branch for new feature mc170315a (mcYYMMDDs)

git checkout -b **mc170315a**

1. Edit the files
2. Commit the change

git commit -m <checkin description>  
git commit -m **“mc170315a – add new feature a”**

1. Merge the branch to dev branch

git checkout dev  
git merge --no –ff <the branch new we would merge with dev>  
git merge --no –ff **mc170315a**

1. If there is file conflict, it will prompt for error message. We can go through the conflict via EAS console
2. After resolved the conflict, we pull the staging change to local computer

git pull orgin **dev**

1. After pull the staging change, starting to push the change to dev

git push origin **dev**

**How to add checking among two fields in the class**

1. Add the validation function into class Event

public IEnumerable<ValidationResult> Validate(ValidationContext validationContext)

{

    if (StartDateTime > EndDateTime)

        yield return new ValidationResult("Start Time cannot be later than End Time.", new[] { "StartDateTime", "EndDateTime" });

}

1. Edit the “/>” to “></span>” for asp-validation-for field

Besides, the asp-validation-for does not work properly when it end with " />".

<**span** **asp-validation-for**="StartDateTime" class="text-danger" / >

I have updated the statement to use </span> instead and the validation works properly after change.

<**span** **asp-validation-for**="StartDateTime" class="text-danger"></**span**>

Reference:

<https://docs.microsoft.com/en-us/aspnet/mvc/mvc3>

<https://weblogs.asp.net/scottgu/class-level-model-validation-with-ef-code-first-and-asp-net-mvc-3>

<http://stackoverflow.com/questions/39464226/asp-validation-for-tag-helper-is-not-working-for-server-side-validation-errors>

**Useful command for Git**

To get a current status

git status -s

To get a pretty graph

git log --oneline --decorate

To list of unpushed commits

git log origin/dev..HEAD

To push commit

git push origin dev

To undo non committed changes

git checkout src/Calendar/filename

To merge the feature branch to dev branch

git checkout <feature branch>

git commit -m <feature branch desc>

git checkout dev

git merge --no-ff <feature branch>

It will show the list of files modified and the files with conflict issue

Resolve the conflict among the files manually and add them again

git add <file with resolved conflict>

git push origin dev

To check the stashes stored in local system

git stash list

git stash clear

At the following situation

1. there is a half-done work and we don’t know to commit at the moment
2. there are some latest change in dev we would like to apply

We can use stash command to store it as stack and apply them after pull the latest changes

To save the half done work as stash

git checkout <branch>

git stash

To restore to the stashed version

git stash apply stash@{n}

To apply the stashed version to latest version in DEV branch

git checkout dev

git pull

git checkout <newbranch>

git stash pop // to merge the latest change with stashed files  
**Auto-merging src/Calendar/wwwroot/js/event.js  
CONFLICT (content): Merge conflict in src/Calendar/wwwroot/js/event.js  
Auto-merging src/Calendar/Views/Events/Index.cshtml  
CONFLICT (content): Merge conflict in src/Calendar/Views/Events/Index.cshtml  
Auto-merging src/Calendar/Controllers/EventsController.cs**

If there is any conflict cannot be resolved, we need to

git status -s  
**M Calendar/Controllers/EventsController.cs  
M Calendar/Models/Services/StaticListOfValuesService.cs  
UU Calendar/Views/Events/Index.cshtml  
UU Calendar/wwwroot/js/event.js**

manual edit the files with UU tagged

git add <file with corresponding path>

git commit -m <message> // commit in VS with commit staged, not sure the command

<https://git-scm.com/book/en/v1/Git-Tools-Stashing>

**Manage Bower Packages**

The static file (e.g. javascript) for client side is managed by Bower Package

We can install or uninstall it via Visual Studio

1. Add proxy connection to .bowerrc file

Go to D:\vs\_project\Calendar\src

Edit .bowerrc file

Add the following lines

{

"directory": "wwwroot/lib",

"registry": "http://bower.herokuapp.com",

"proxy":"http://USERNAME:PASSOWRD@proxy.ha.org.hk:8080/",

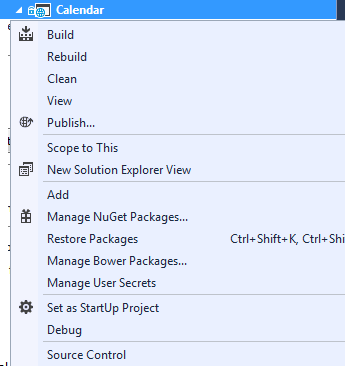
"https-proxy":"http://USERNAME:PASSWORD@proxy.ha.org.hk:8080/"

}

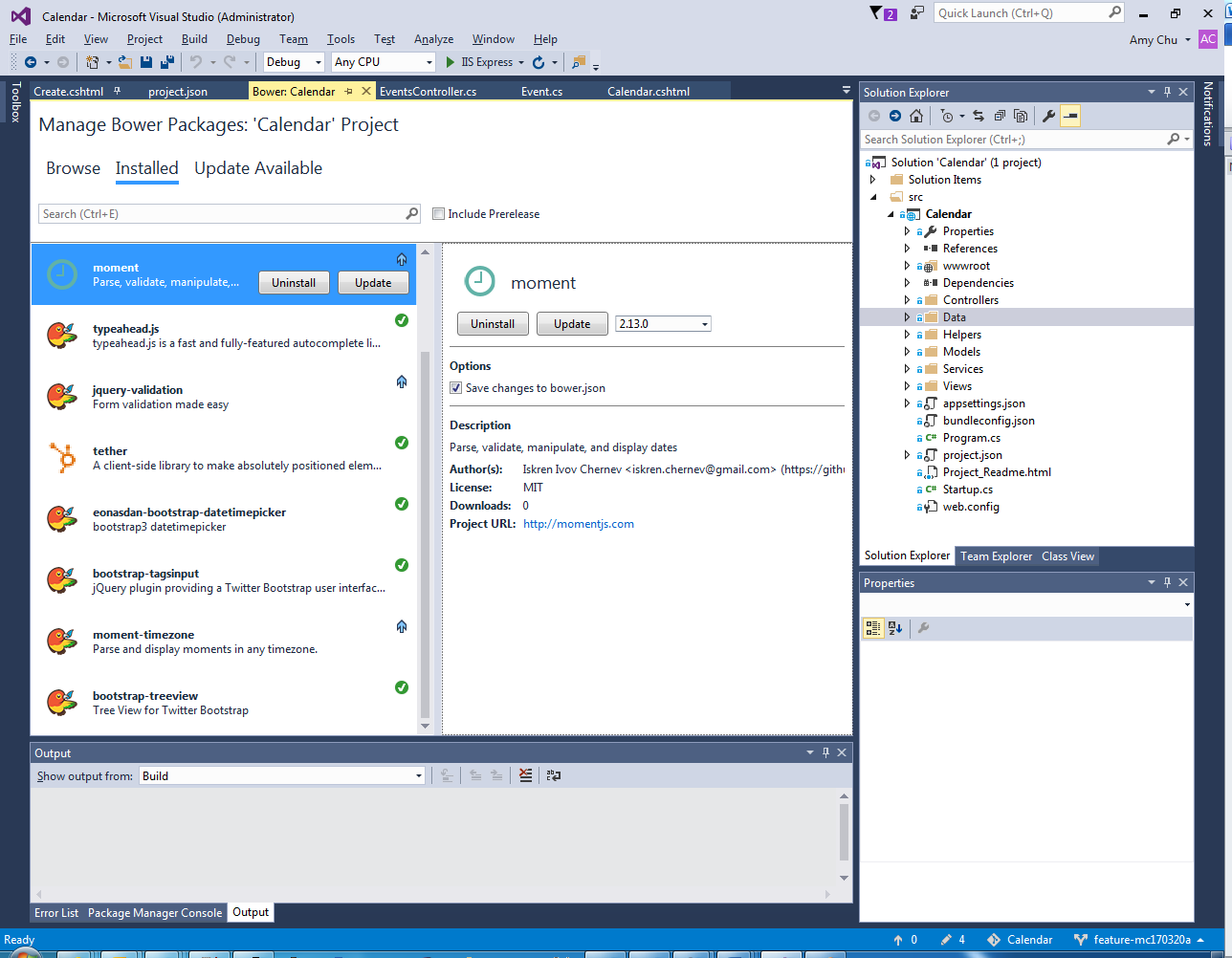
1. Check the client side package used in project

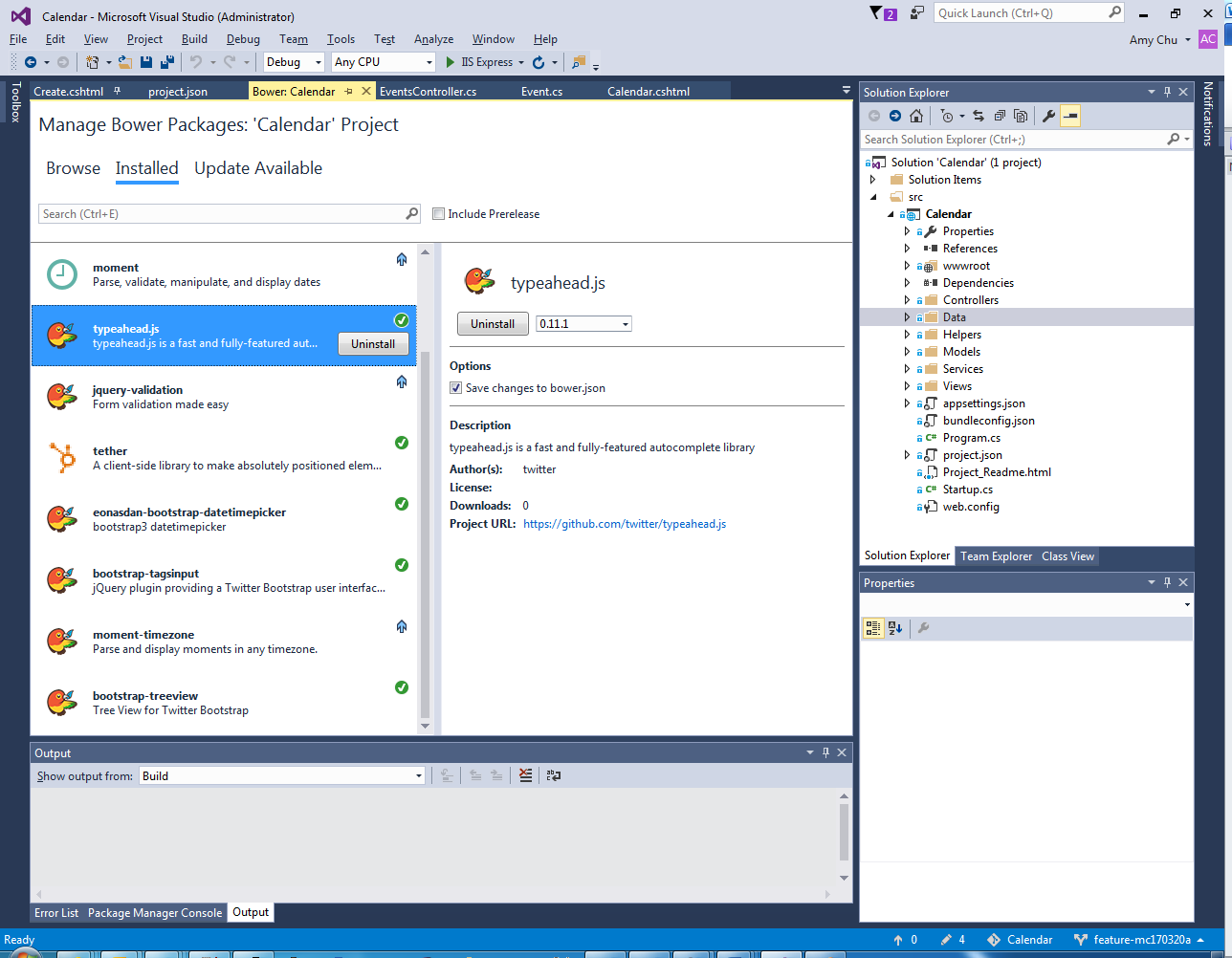
Right click on project name > Manage Bower Packages…

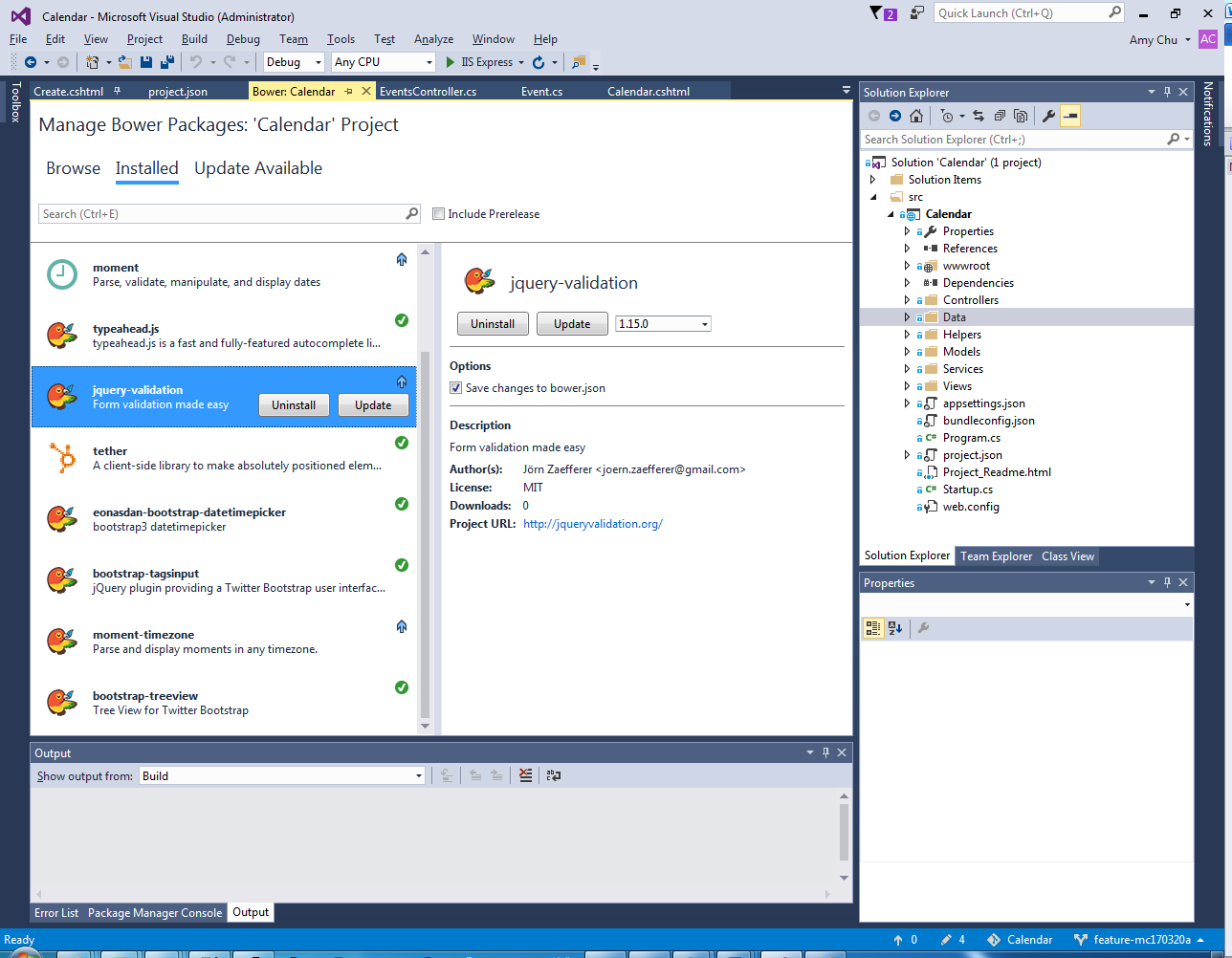
Package can be installed or uninstalled through this function

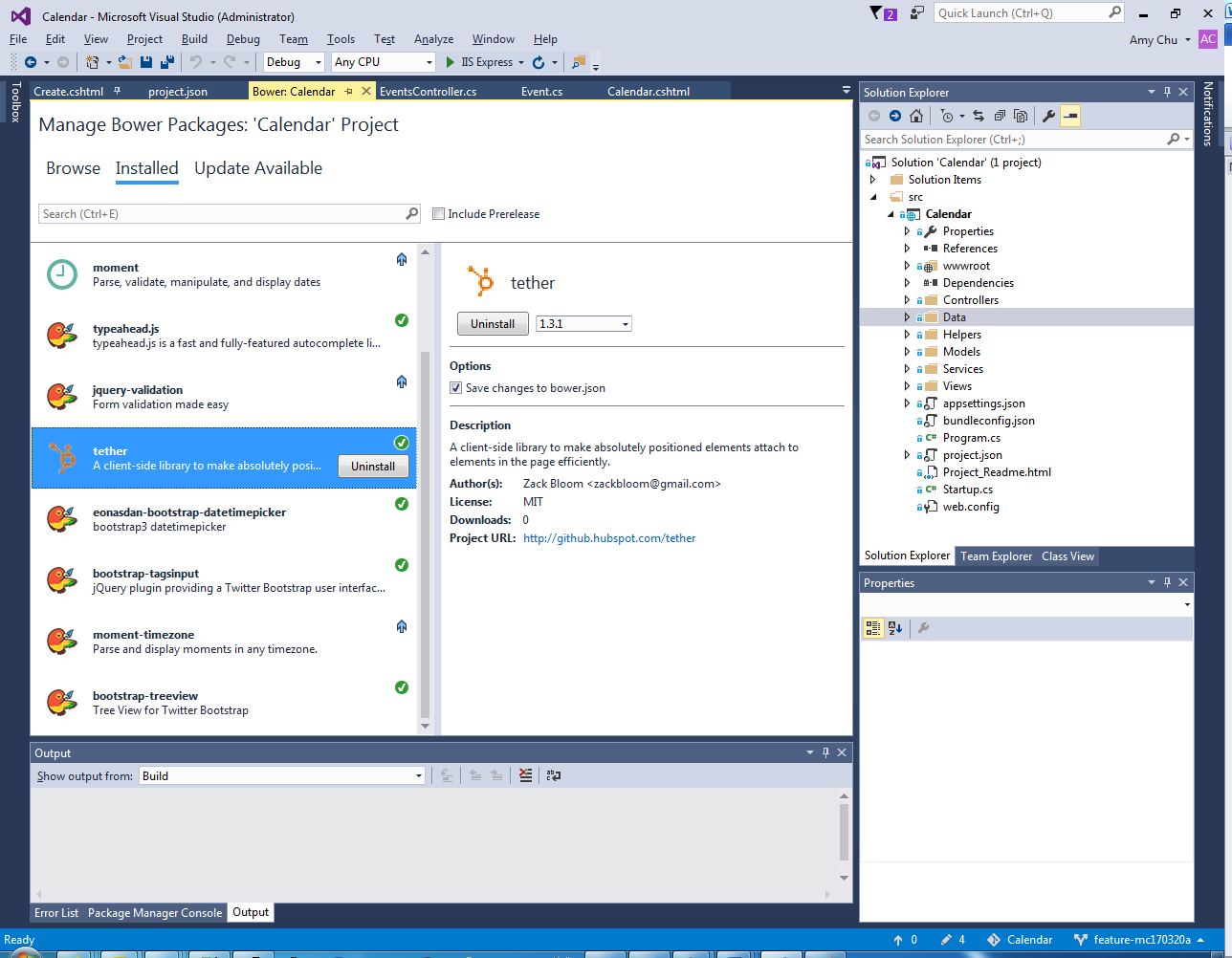


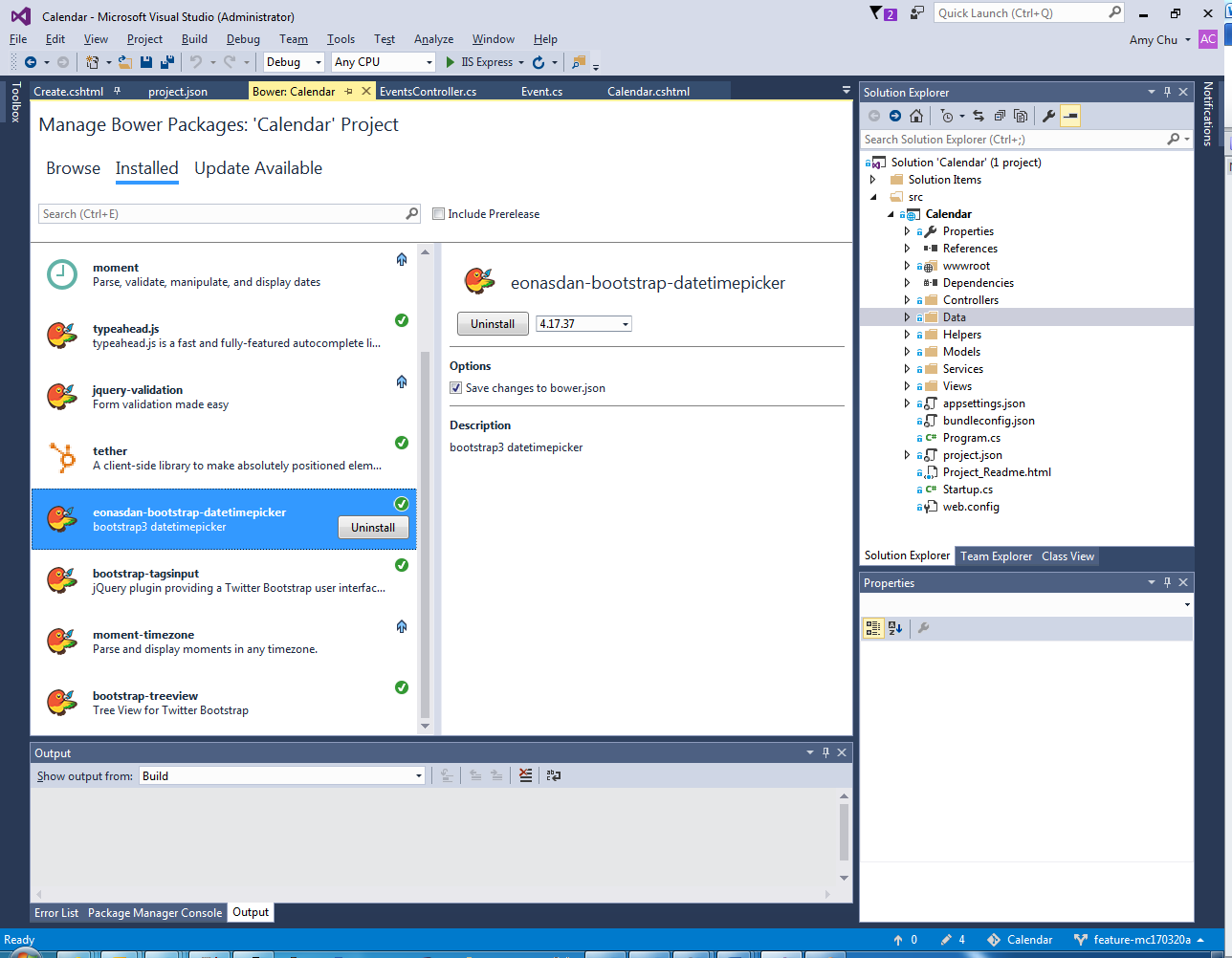
List of Installed package is shown

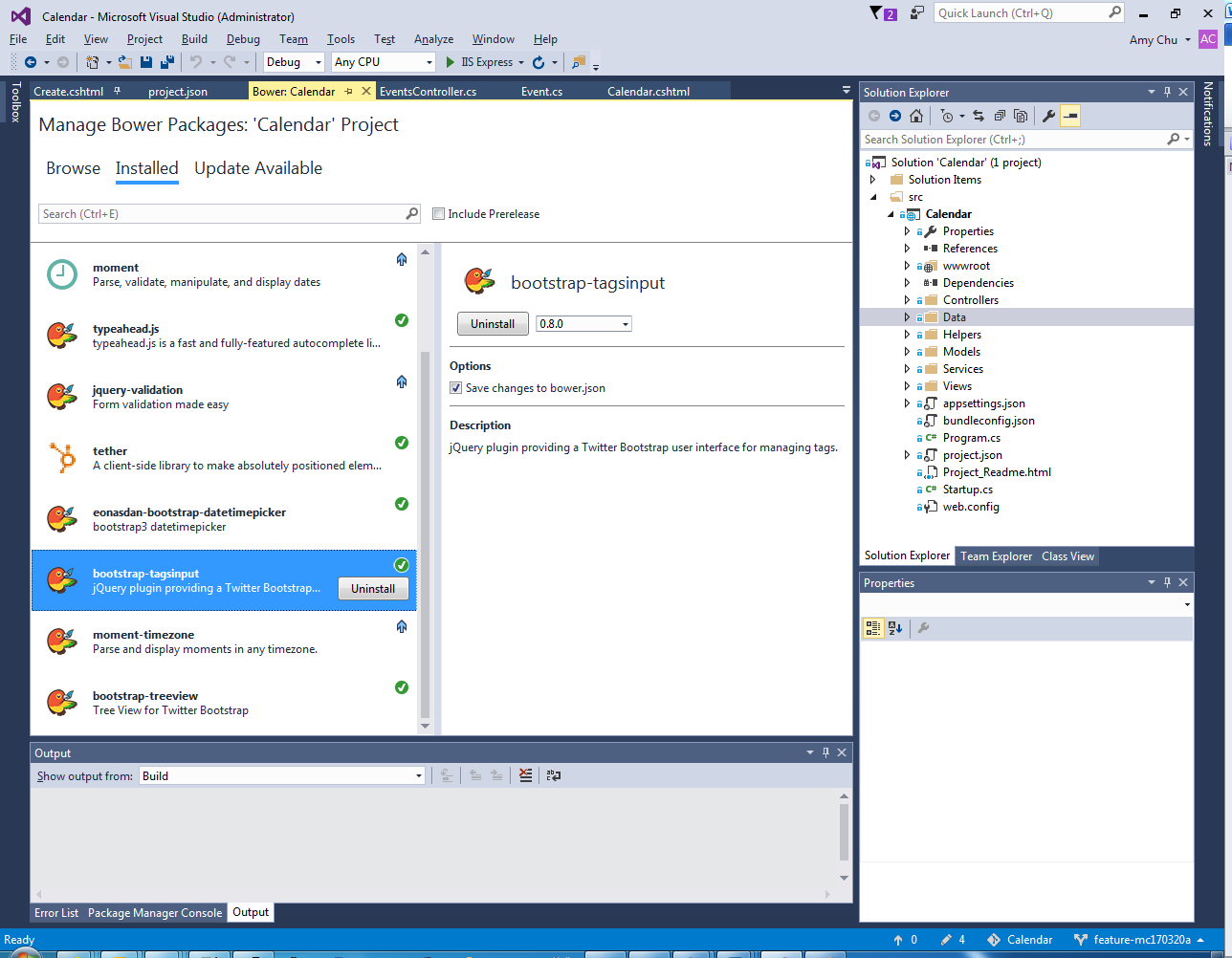


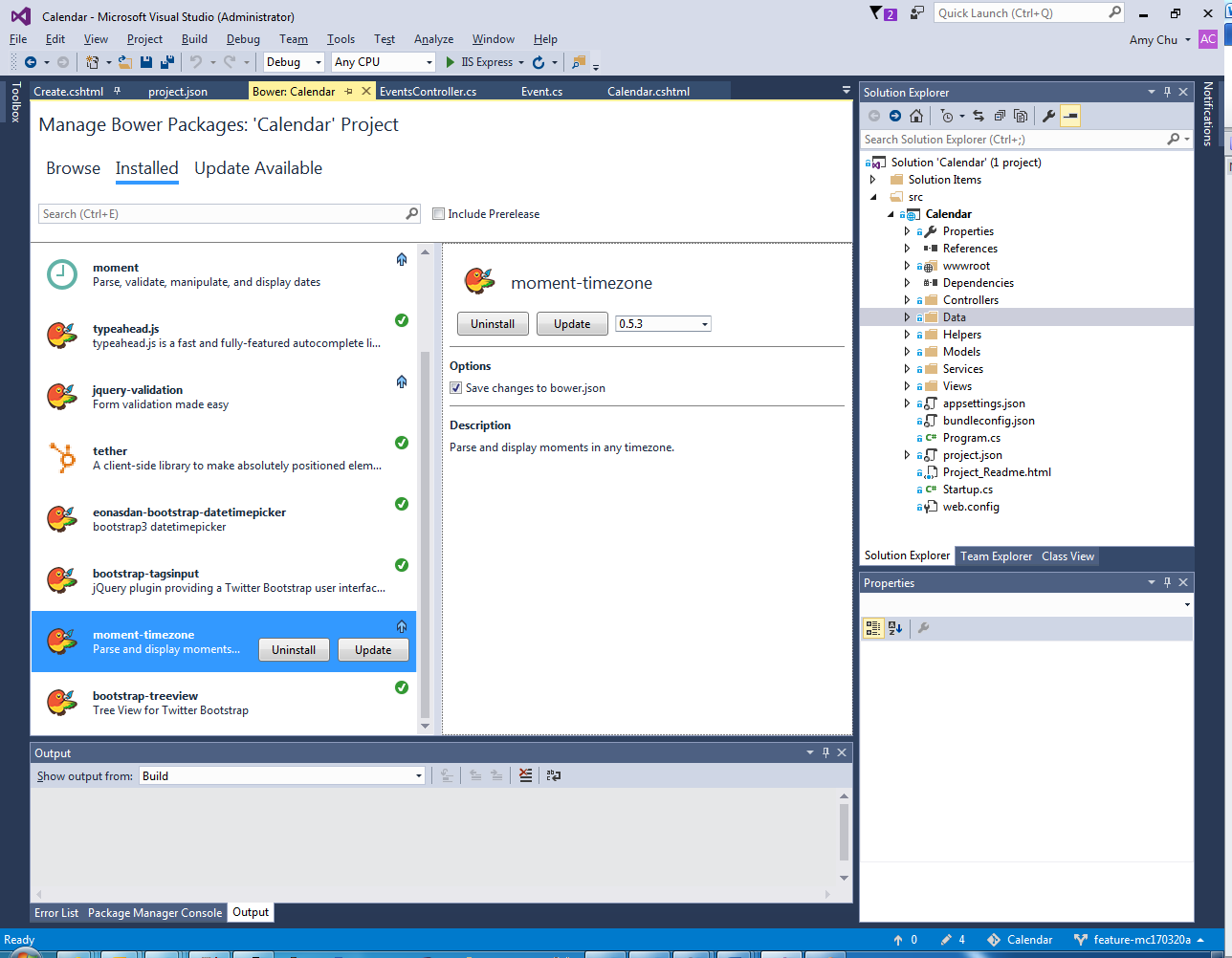


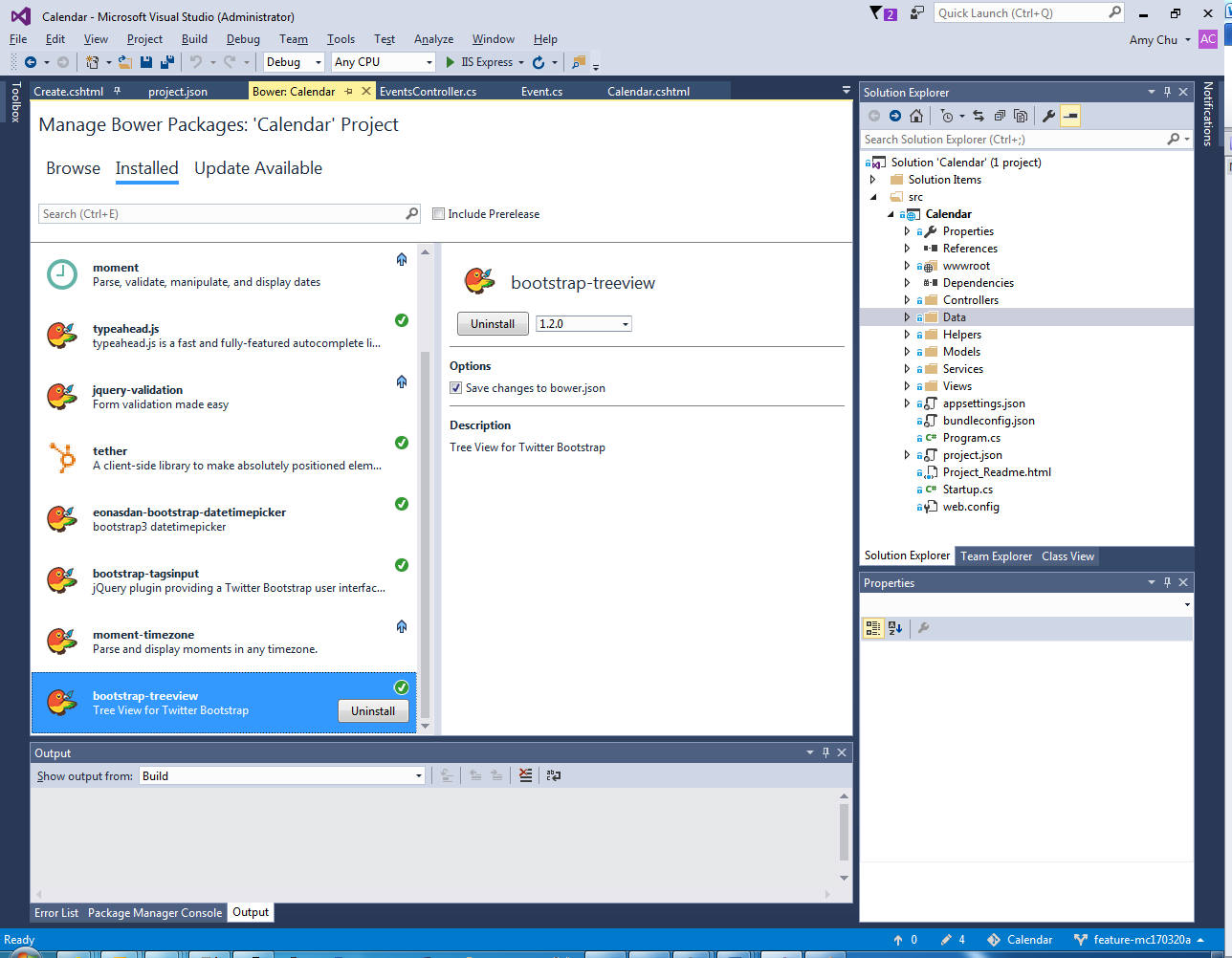




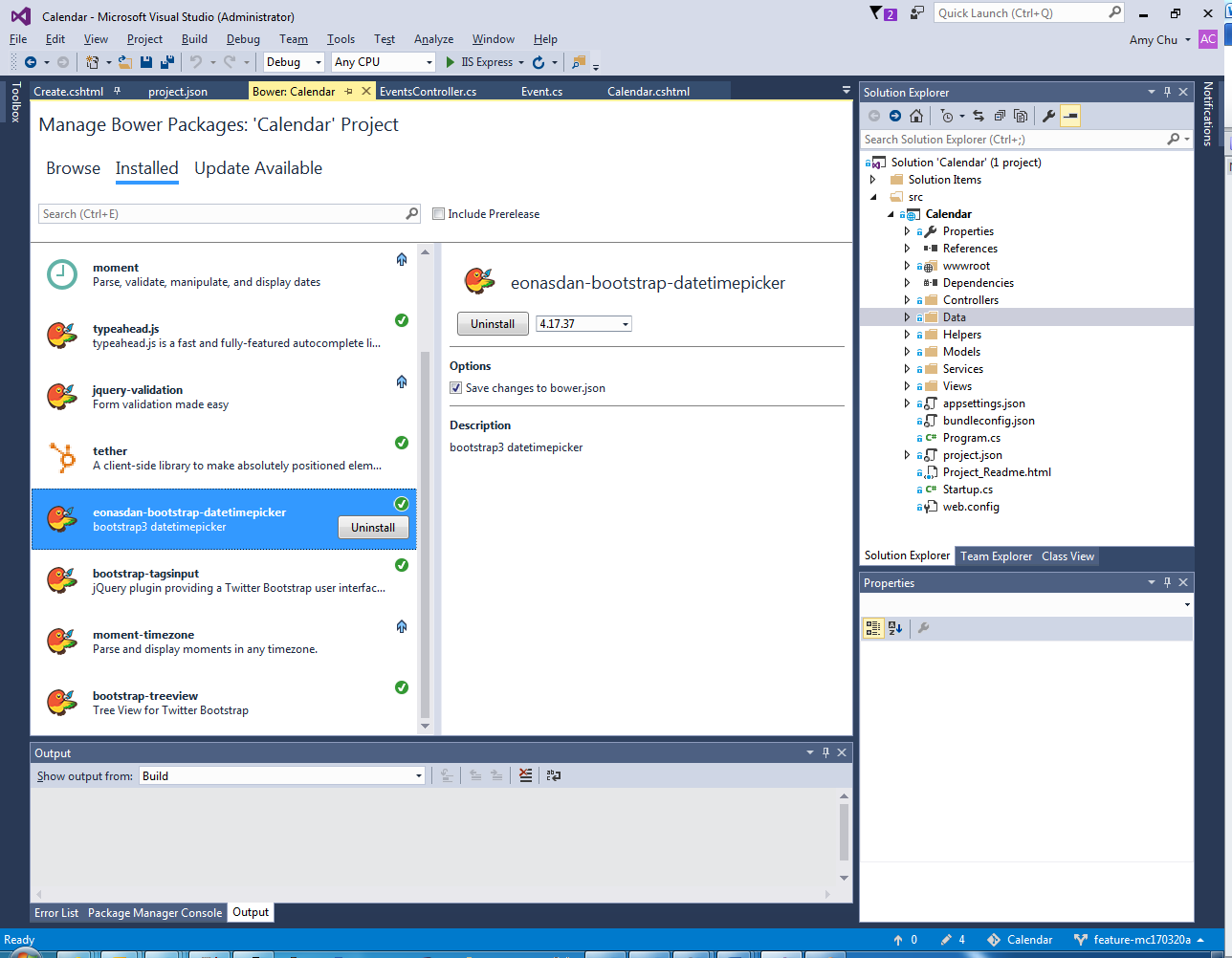








1. Uninstall and re-install bootstrap-datetimepicker

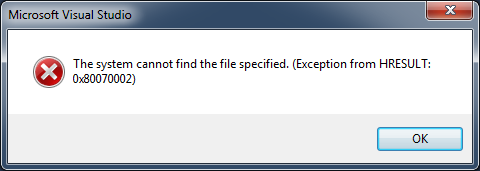


1. After re-install, the build folder appears under wwwroot directory

**dotnet ef Command**

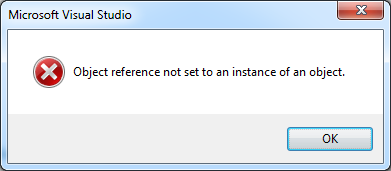
* dotnet (.NET Core) is a cross-platform implementation of .NET. You can read about it [here](http://go.microsoft.com/fwlink/?LinkID=517853).
* dotnet restore: Downloads the NuGet packages specified in the .csproj file.
* dotnet ef migrations add Initial Runs the Entity Framework .NET Core CLI migrations command and creates the initial migration. The parameter "Initial" is arbitrary, but customary for the first (initial) database migration. This operation creates the Data/Migrations/<date-time>\_Initial.cs file containing the migration commands to add (or drop) the Movie table to the database
* dotnet ef database update Updates the database with the migration we just created
* dotnet ef database update <migration name> Updates the database to roll back to <migration name>

File > New project



Run as admin > New Project

The issue even worse



We were unable to automatically populate your Visual Studio Team Services accounts.

The following error was encountered: An error occurred while sending the request.

To solve the object reference issue,

Go to C:\Program Files\Microsoft Visual Studio 14.0\Common7\IDE

Run devenv /resetuserdata.

Expect, that all of your user settings such as Visual Studio layout, linked Microsoft account or start page disappear.

**Activity Log location**

C:\Users\CKL654\AppData\Roaming\Microsoft\VisualStudio\14.0

**Issue: SetSite failed for package [DNX Project System]**

<entry>

<record>558</record>

<time>2017/03/24 08:15:49.660</time>

<type>Error</type>

<source>NuGet Package Manager</source>

System.Management.Automation.RuntimeException: EF Core commands do not support PowerShell version 2.0. Please upgrade PowerShell to 3.0 or greater and restart Visual Studio.

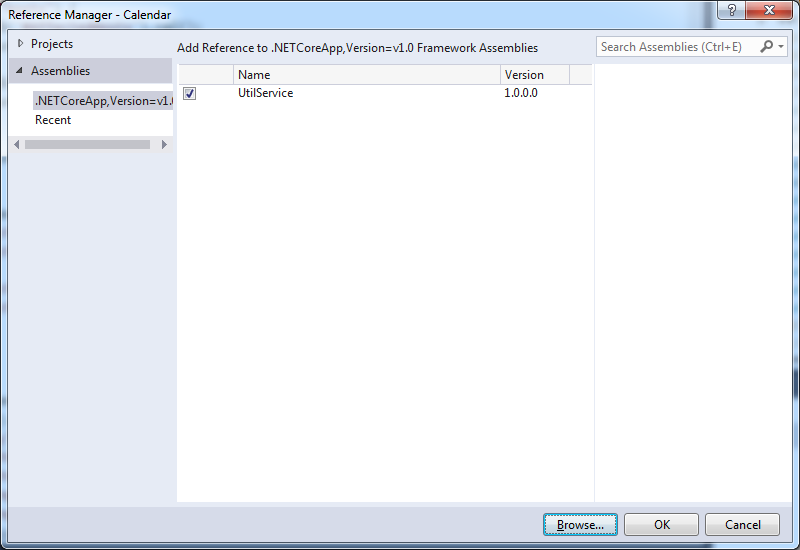
</entry>

How to add attachment with Web Service

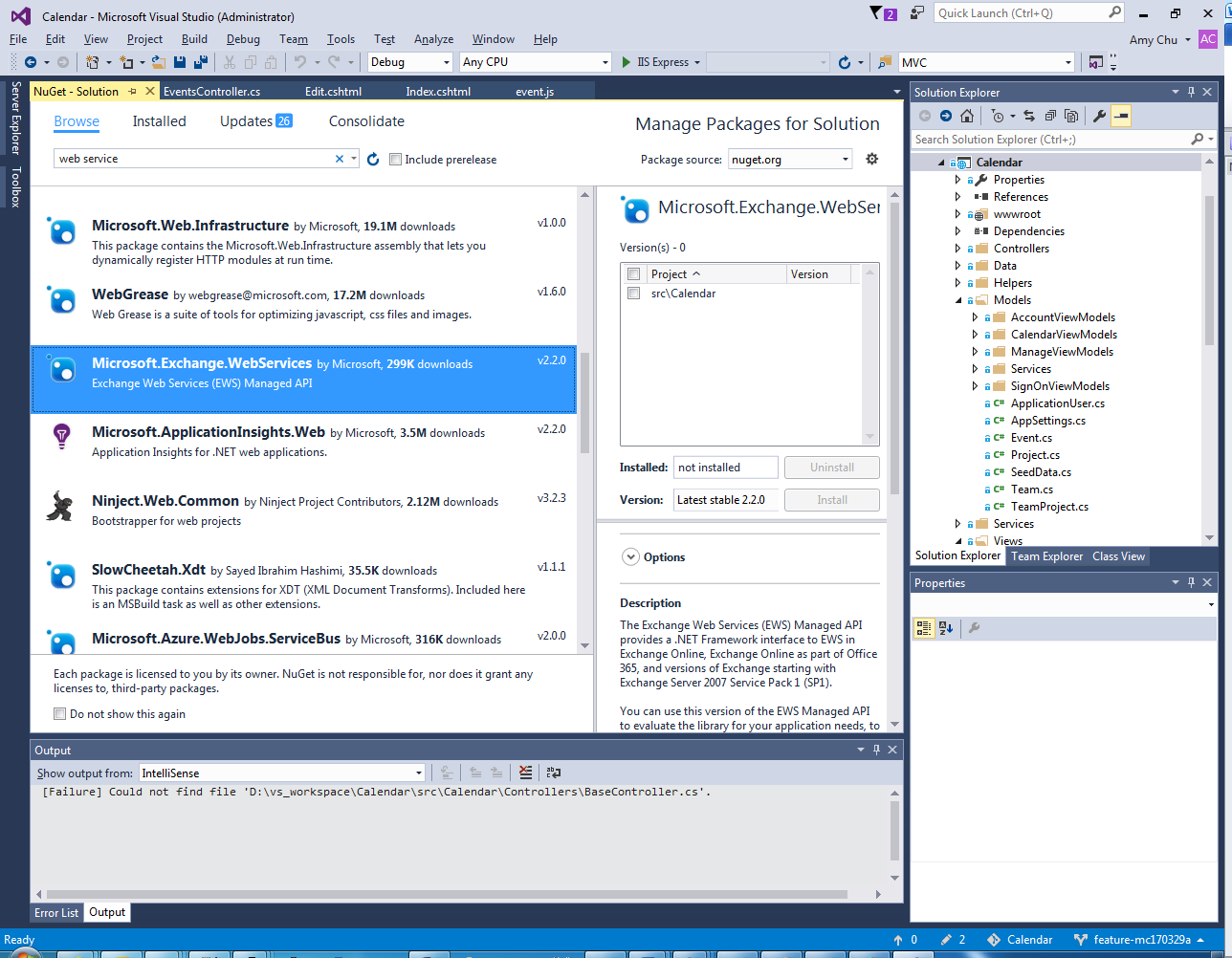
<http://www.c-sharpcorner.com/UploadFile/29d7e0/steps-to-create-a-simple-web-service-and-use-it-in-Asp-Net/>

<http://www.c-sharpcorner.com/UploadFile/653eb2/consuming-web-services-in-Asp-Net-mvc-5-application/>

Try and error: Failed to add reference (since it is not a .NET project)



Do we need to install Microsoft.Exchange.WebServices??



**File upload**

**Install Bootstrap.fileinput under bower package**

Example

<http://plugins.krajee.com/file-basic-usage-demo>

Upload demo sample

<http://codepen.io/CSWApps/pen/GKtvH>

No build folder exist

Try : npm uninstall --save-dev gulp-sass  
Then: npm install --save-dev gulp-sass

Action taken:

1. Install boostrap.fileinput under bower package (may need to enable proxy during install)
2. Add the following in Views/Events/\_Layout.cshtml

<link href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.5/css/bootstrap.min.css" rel="stylesheet">

<link href="path/to/css/fileinput.min.css" media="all" rel="stylesheet" type="text/css" />

<script src="//ajax.googleapis.com/ajax/libs/jquery/2.1.1/jquery.min.js"></script>

<!-- canvas-to-blob.min.js is only needed if you wish to resize images before upload.

This must be loaded before fileinput.min.js -->

<script src="path/to/js/plugins/canvas-to-blob.min.js" type="text/javascript"></script>

<script src="path/to/js/fileinput.min.js"></script>

<!-- bootstrap.js below is only needed if you wish to the feature of viewing details

of text file preview via modal dialog -->

<script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.5/js/bootstrap.min.js" type="text/javascript"></script>

<!-- optionally if you need translation for your language then include

locale file as mentioned below -->

<script src="path/to/js/fileinput\_locale\_<lang>.js"></script>

1. Add the file upload control to Create / Edit page
2. Add the action handle the upload in Event Controller

<http://stackoverflow.com/questions/29176150/krajee-bootstrap-fileinput-with-mvc-razor>

Coding example

<https://www.mikesdotnetting.com/article/288/uploading-files-with-asp-net-core-1-0-mvc>

ASP.NET Core – how to get the path of wwwroot

<https://blog.mariusschulz.com/2016/05/22/getting-the-web-root-path-and-the-content-root-path-in-asp-net-core>

File upload example

<https://docs.microsoft.com/en-us/aspnet/core/mvc/models/file-uploads>

<https://docs.microsoft.com/en-us/aspnet/core/mvc/models/file-uploads>

Upload large file

<http://www.telerik.com/blogs/upload-large-files-asp-net-radasyncupload>

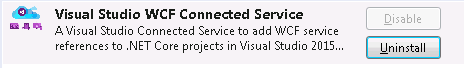
WCF – Preview

1. Install WCF – Preview

Right click Reference

Add connected service

Search for Visual Studio WCF Connected Service and install



Restart Visual Studio

1. Add existing web service (asmx) to VS project as service reference
2. Consume the web service in the program (Controller?)

using UploadFile; // the namespace of the Web Service

String filename = "ABC";

byte[] f = new byte[] { 0x20, 0x20, 0x20, 0x20, 0x20, 0x20, 0x20 };

//UploadFileRequestBody fileBody = new UploadFileRequestBody(f, filename);

//UploadFileRequest file = new UploadFileRequest(fileBody);

UtilServiceSoapClient client = new UtilServiceSoapClient(UtilServiceSoapClient.EndpointConfiguration.UtilServiceSoap);

UploadFileResponse returnResponse = await client.UploadFileAsync(f, filename);

Q1: how to check success?

Q2: how to retrieve the attachment from upload directory?

How to add model for attachment?

Reference document <https://docs.microsoft.com/en-us/aspnet/core/tutorials/first-mvc-app/adding-model>

Online calculator web service example

<http://www.dneonline.com/calculator.asmx>

<https://msdn.microsoft.com/en-us/library/ms751519(v=vs.110).aspx>

How to define WCF endpoint

<https://msdn.microsoft.com/en-us/library/ms734786(v=vs.110).aspx>

<https://blogs.msdn.microsoft.com/webdev/2016/06/26/wcf-connected-service-for-net-core-1-0-0-and-asp-net-core-1-0-0-is-now-available/>

<http://tattoocoder.com/asp-net-core-getting-clean-with-soap/>

WCF Testing Service for demo purposes

<https://github.com/spboyer/peopleservice>

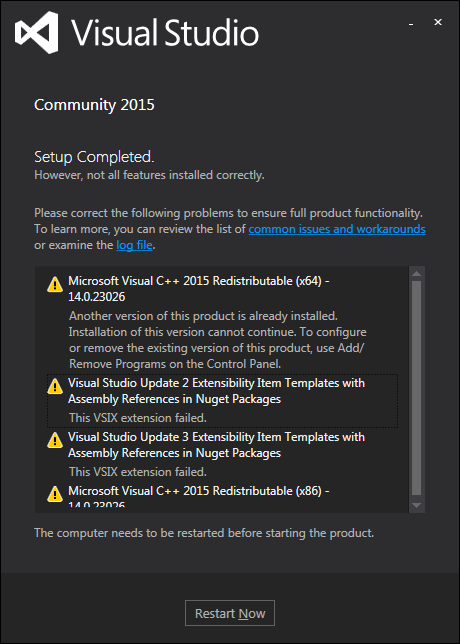
bootstrap example

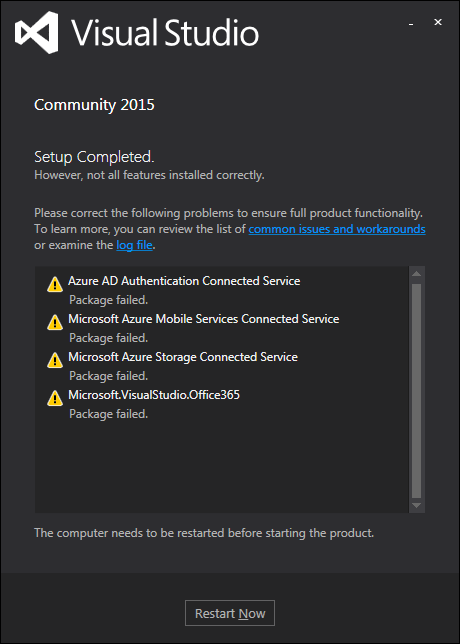
<http://plugins.krajee.com/file-input#events>

<http://plugins.krajee.com/file-input#usage>

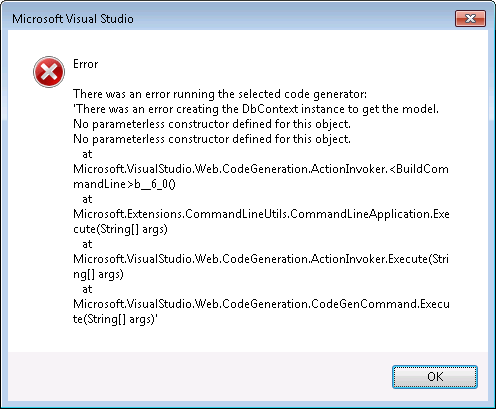
Can we call controller’s method from another controller?

<http://stackoverflow.com/questions/2910948/can-we-call-the-method-of-a-controller-from-another-controller-in-asp-net-mvc>





When add the controller to a model class Attachment, this error is shown.



How to add the new model, controller and its scaffolding items (e.g. View..)

<http://www.claudiobernasconi.ch/2015/06/22/how-to-fix-common-errors-using-asp-net-mvc-scaffolding/>

Add tab in the page

Example <https://codepen.io/wizly/pen/BlKxo>

<http://getbootstrap.com/components/#nav>

**Use HTML object to call action in Controller**

<input type="button" value="Create" onclick="location.href='@Url.Action("Create", "User")'" />

use button instead of input?

@Html.ActionLink("DisplayText", "Action", "Controller", route, attribute)

<http://stackoverflow.com/questions/2503923/html-button-calling-an-mvc-controller-and-action-method>

**Download**

<http://rachelappel.com/upload-and-download-files-using-asp-net-mvc/>

Backup of code in AttachPartial

$('#idFormAttach1').on('submit', function (e) {

var attachid = $(this).find('input[name="attachid"]').val();

var attachid = $(this).find('input[name="attachid"]').val();

var attachid = $(this).find('input[name="attachid"]').val();

e.preventDefault();

$.ajax({

type: $(this).attr('method'),

url: $(this).attr('action'),

data: $(this).serialize(),

success: function (data) {

$('#idAttachRow-' + attachid).remove();

},

error: function (jqXHR, textStatus, errorThrown) {

alert('Status: ' + textStatus + ', Error: ' + errorThrown);

}

});

});

$("#idFile").fileinput({

uploadUrl:"@Url.Action("upload","Attachments")",

uploadAsync: true,

minFileCount: 1,

maxFileCount: 5,

overwriteInitial: false,

initialPreview: "",

initialPreviewConfig:"",

uploadExtraData: ""

});

$('#idFile').on('fileerror', function (event, data, msg) {

console.log(data.id);

console.log(data.index);

console.log(data.file);

console.log(data.reader);

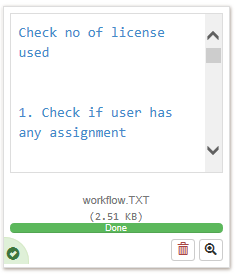
console.log(data.files);

// get message

alert(msg);

});

Upload successfully



<https://abandon.ie/notebook/simple-file-uploads-using-jquery-ajax>

Reference to the code

$.ajax({

url: 'submit.php?files',

type: 'POST',

data: **new FormData(this)**,

cache: false,

~~dataType: 'json',~~

processData: false, // Don't process the files

contentType: false, // Set content type to false as jQuery will tell the server its a query string request

success: function(data, textStatus, jqXHR)

// Catch the form submit and upload the files

function uploadFiles(event)

{

event.stopPropagation(); // Stop stuff happening

event.preventDefault(); // Totally stop stuff happening

// START A LOADING SPINNER HERE

// Create a formdata object and add the files

var data = new FormData();

$.each(files, function(key, value)

{

data.append(key, value);

});

$.ajax({

url: 'submit.php?files',

type: 'POST',

data: data,

cache: false,

dataType: 'json',

processData: false, // Don't process the files

contentType: false, // Set content type to false as jQuery will tell the server its a query string request

success: function(data, textStatus, jqXHR)

{

if(typeof data.error === 'undefined')

{

// Success so call function to process the form

submitForm(event, data);

}

else

{

// Handle errors here

console.log('ERRORS: ' + data.error);

}

},

error: function(jqXHR, textStatus, errorThrown)

{

// Handle errors here

console.log('ERRORS: ' + textStatus);

// STOP LOADING SPINNER

}

});

}

