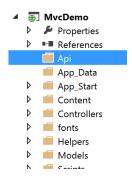
### ASP.Net Web API: Lab 1 - Getting Started With WebApi

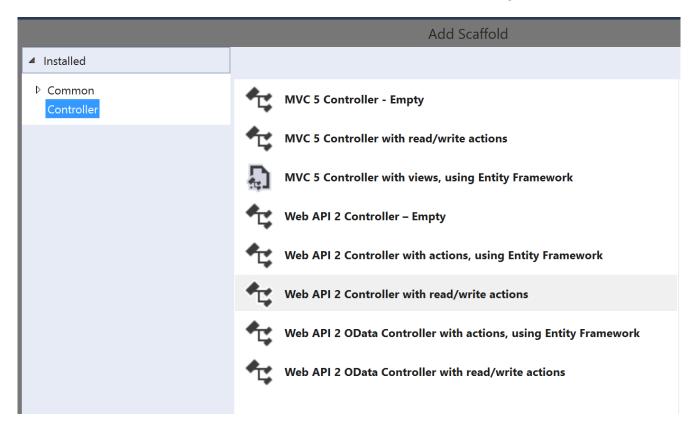
#### Lab Setup: Open the MVCDemo solution file in the Lab-4-Exercise-1-Begin

In this lab we're going to create a simple ActionFilter to demonstrate how they work and how to implement them.

1. Create a new folder and name it Api



2. Next we want to add a Web Api 2 Controller. To do this right-click on Api and select Add-> Controller and select "Web API 2 Controller with read/write actions" and name it MeetingController



This will create a new controller with a number of methods.

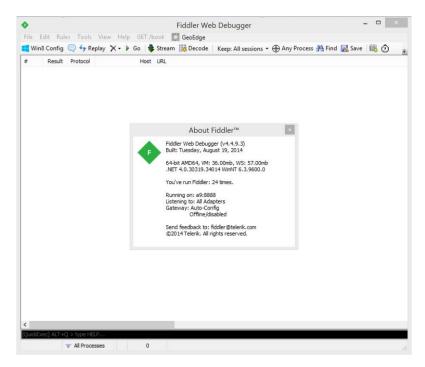
```
namespace MvcDemo.Api
```

You will notice that similar to when we created our other MVC controllers a number of methods have been created for us. In this case however their names reflect http verbs. (Get, Post etc.)

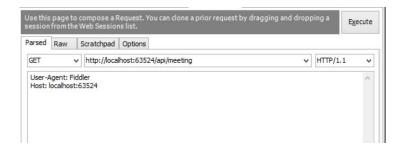
3. Next we will need to update Global.asax to register the Api routing

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.Http;
using System.Web.Mvc;
using System.Web.Routing;
namespace MvcDemo
    public class MvcApplication : System.Web.HttpApplication
        protected void Application_Start()
            GlobalConfiguration.Configure(WebApiConfig.Register);
            AreaRegistration.RegisterAllAreas();
            RouteConfig.RegisterRoutes(RouteTable.Routes);
        }
    }
}
```

4. Let's take a look at how the API responds using a http request tool such as Fiddler. (Other options include PostMan for Chrome)



Using the composer we can make http requests against our service



And see the results that are returned:

5. To make things more interesting, let's update our controller to return some meeting data:

```
// GET: api/Meeting
public IEnumerable<Meeting> Get()
{
    var meetingRepository = new MockMeetingRepository();
    List<Meeting> meetings = meetingRepository.GetAll();
    return meetings;
}

// GET: api/Meeting/5
public Meeting Get(int id)
{
    var meetingRepository = new MockMeetingRepository();
    Meeting meeting = meetingRepository.Get(id);
```

```
return meeting;
}
```

6. The next step is to setup some client side code (Javascript in the browser) to access this data. First add some the following HTML to our Meetings/Index view above the first <h2> tag:

This will give us a text box that we can use to filter data from the user.

# Search by ID



7. Next add the following JavaScript code to the very bottom of the view.

```
<script src="http://ajax.aspnetcdn.com/ajax/jQuery/jquery-2.0.3.min.js"></script>
<script>
    var uri = 'api/meeting';
    $(document).ready(function () {
        // Send an AJAX request
        $.getJSON(uri)
            .done(function (data) {
                // On success, 'data' contains a list of meetings.
                $.each(data, function (key, item) {
                    // Add a list item for the meeting.
                    $('', { text: item.Title }).appendTo($('#meetings'));
                });
            });
    });
    function find() {
        var id = $('#meetingId').val();
        $.getJSON(uri + '/' + id)
            .done(function (data) {
                $('#meeting').text(data.Title);
```

```
})
.fail(function (jqXHR, textStatus, err) {
     $('#product').text('Error: ' + err);
});
}
</script>
```

The result displays a list from the API of all of the meetings and give you the ability to enter the id of a single meeting and see the results.

## Search by ID



F#/Data Analytics Hands-On Lab

## All Meetings

- Data sig: A Gentle Intro to In-Memory OLTP in SQL Server 2014 Kevin Feasel
- Dev Craftsmanship sig: Developing a Win 8.1 app
- Web/Mobile Apps sig: MVC5
- Main Meeting: Unlocking the Power of Object-Oriented C# Jay Hil
- F#/Data Analytics Hands-On Lab
- · An evening with Thomas Petricek
- Web sig: Intro to MVC Hands on Lab
- Main Meeting: Get Kinect-ed Chris Gardner
- F# SIG Concurrency in F# (Riccardo Terrell from MSFT)