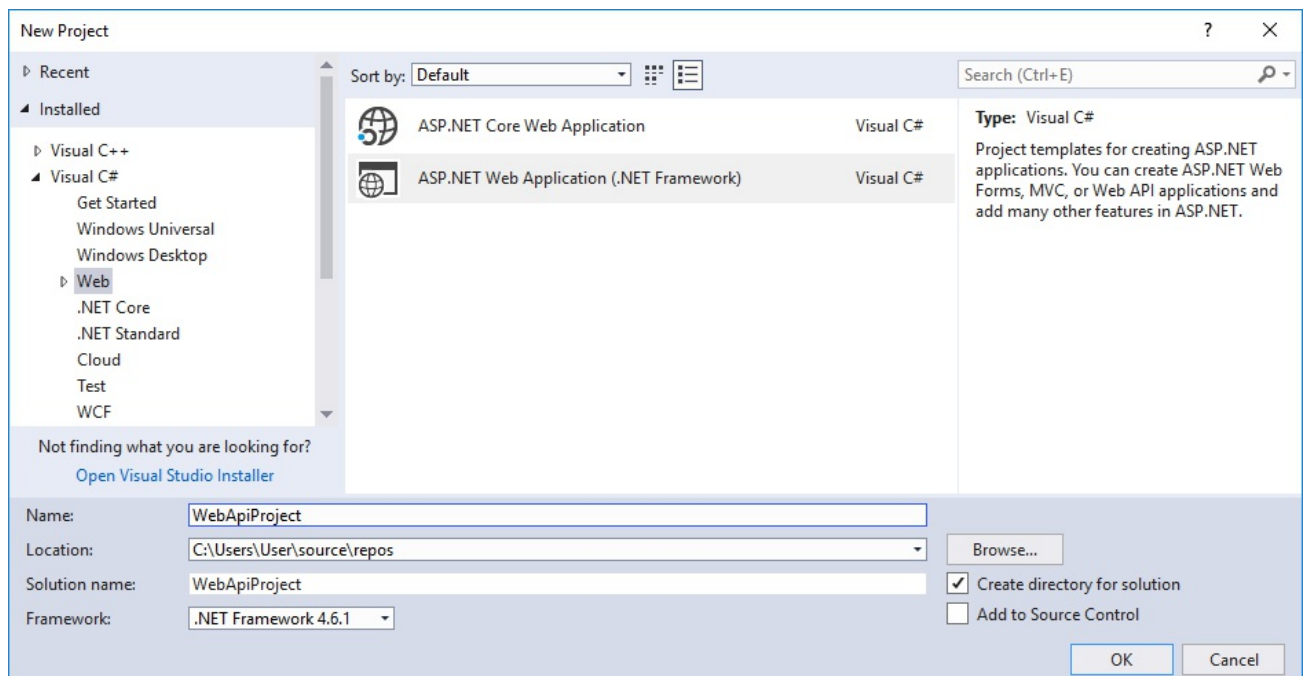


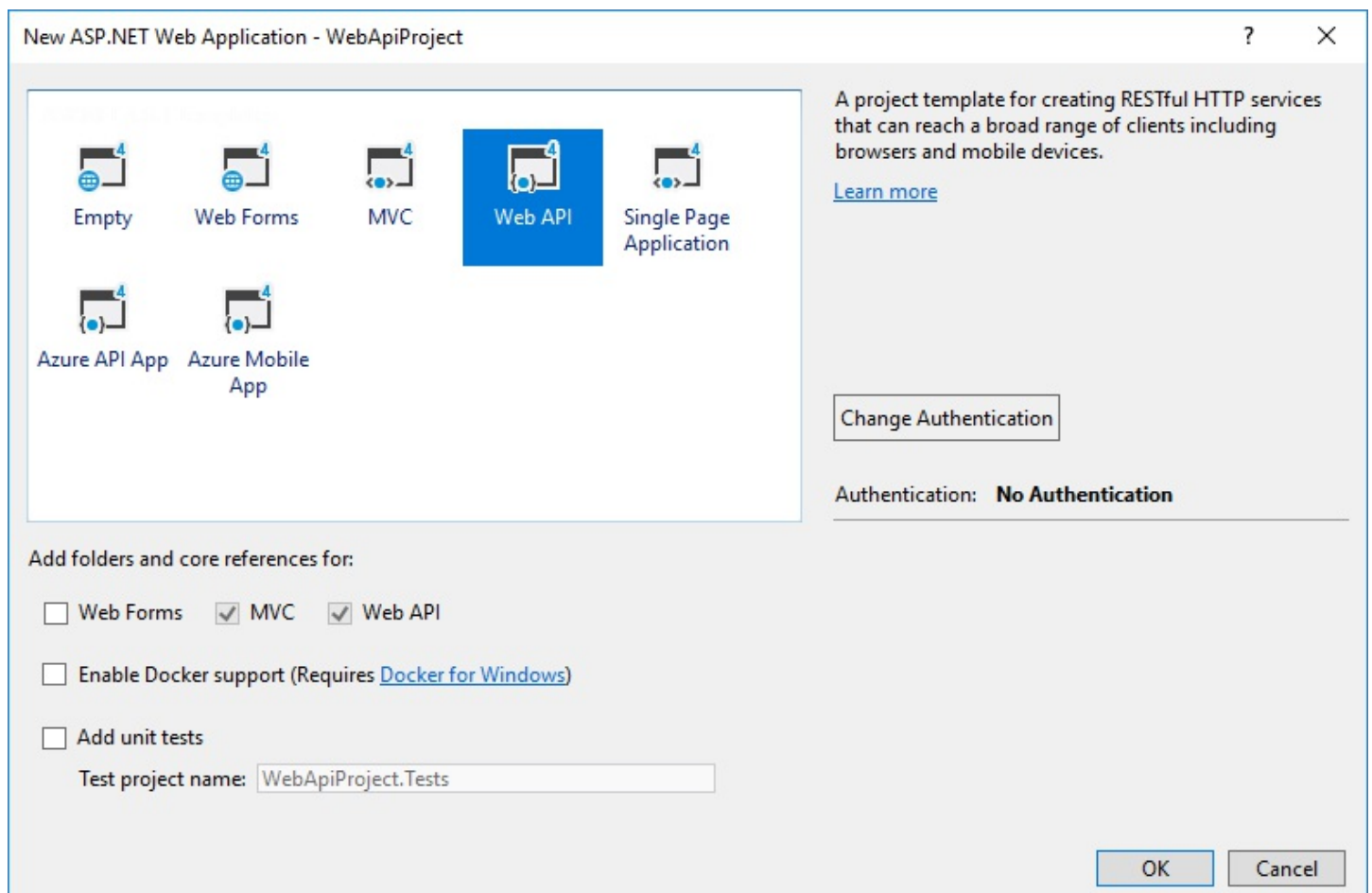
Web API Walkthrough

Create a new Project

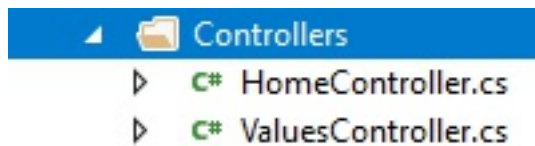
- Open Visual Studio
- Go to New Project
- C#
- Select ASP .NET Web Application (Net Framework)
- Change the name to **WebApiProject**



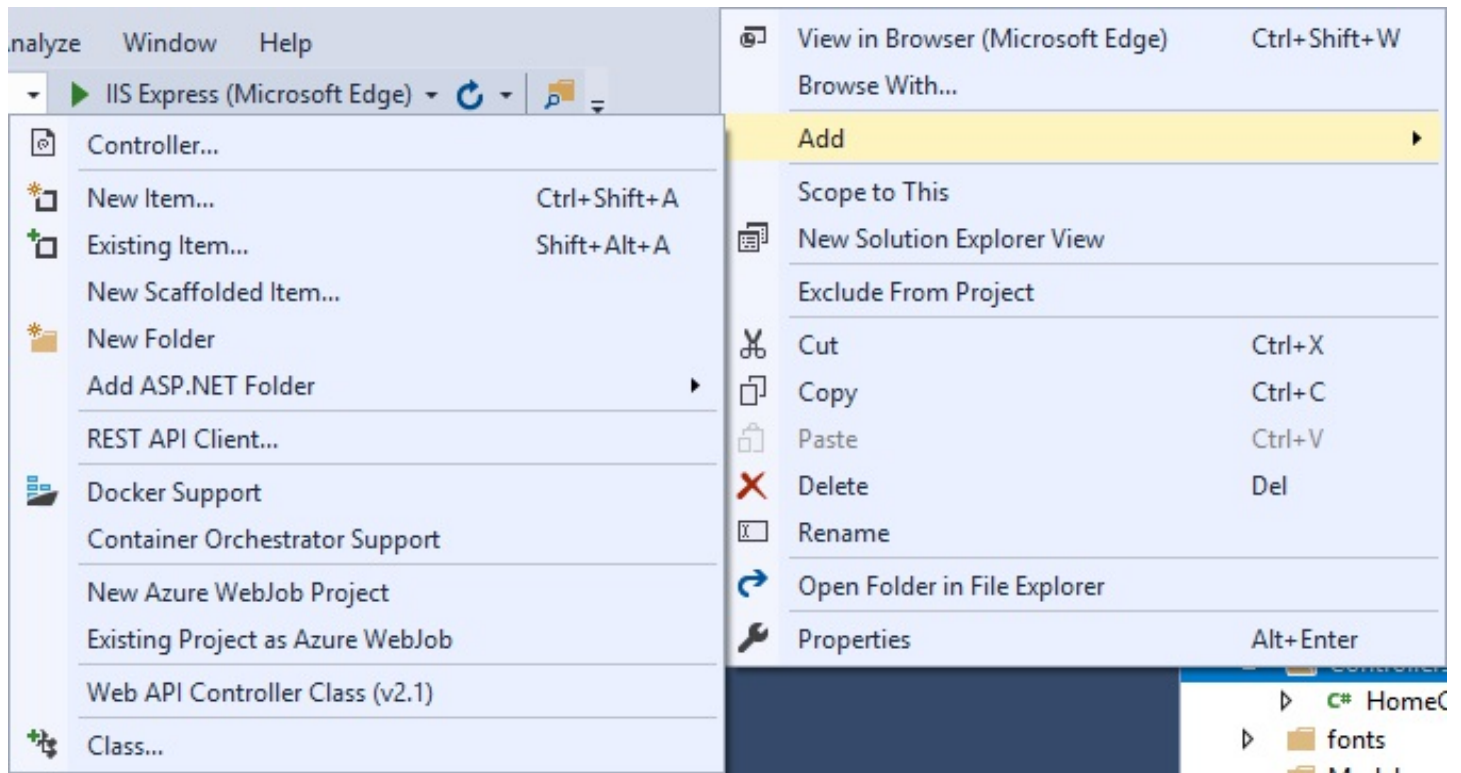
Select the Web API Project



Delete the ValuesController.cs within Controllers folder from the project



Add a new Controller inside the Controllers:



Pick the Empty API Project for the **specific MVC Version Installed**

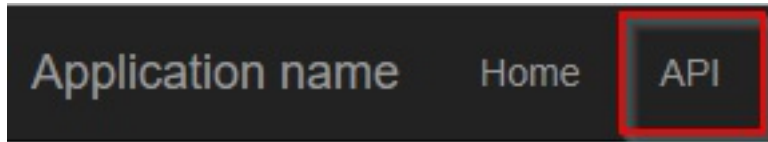
- Name the controller: AccountTypeController

Copy the following code to the AccountTypeController

```
public string[] Get()
{
    return new string[]{
        "This is a hardcoded Account Type"
    };
}
```

Now Run the Application (this may take a while because is hosted on IISExpress)

- You will see a Home Page (default)
- Click on the API Tab on the Top Bar



- You should see something like this:

ASP.NET Web API Help Page

Introduction

Provide a general description of your APIs here.

AccountType

API	Description
GET api/AccountType	No documentation available.

Download PostMan

For this training purposes we will be using a third party application to consume the REST

Download: [PostMan](#)

Register or use your google account

Once you are register to Postman and the application is open do the following:

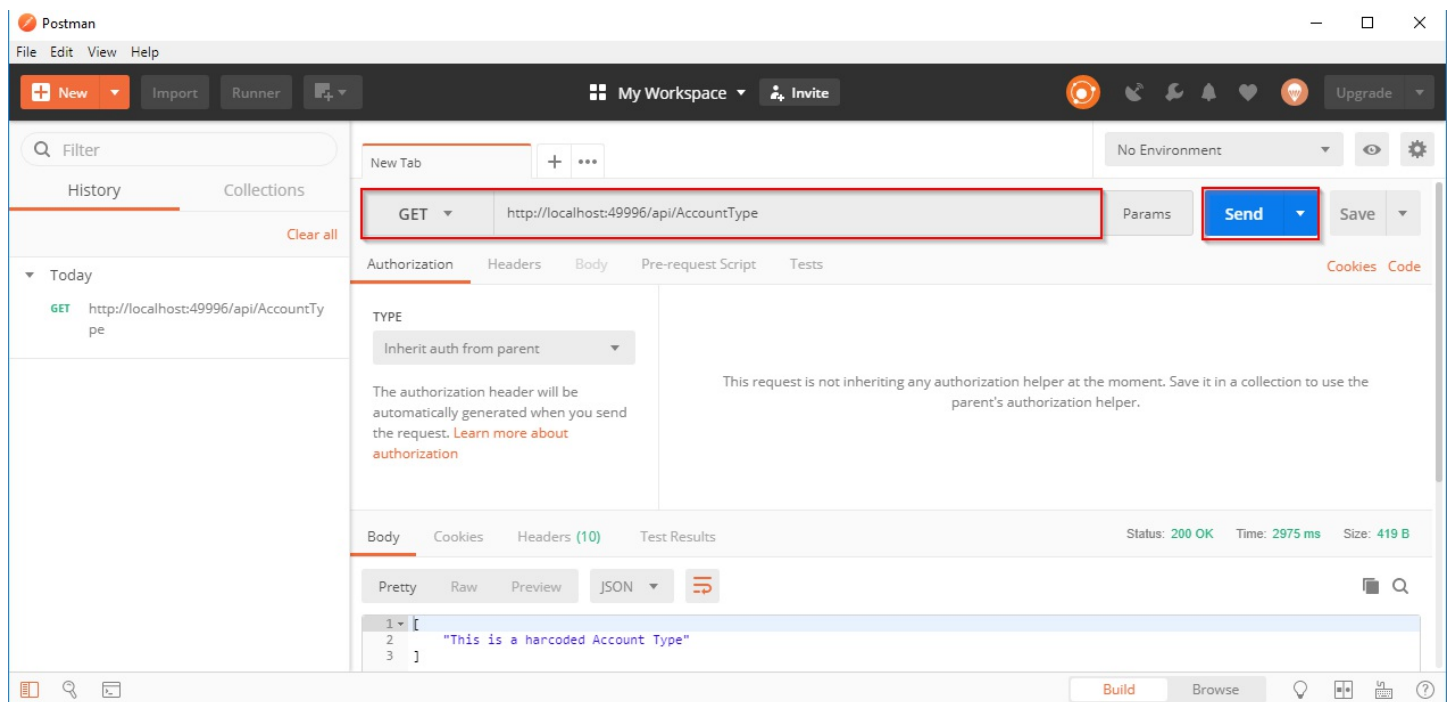
Select the Get (default) operator on the bar and input the following URL

<http://localhost:<yourport>/api/AccountType>

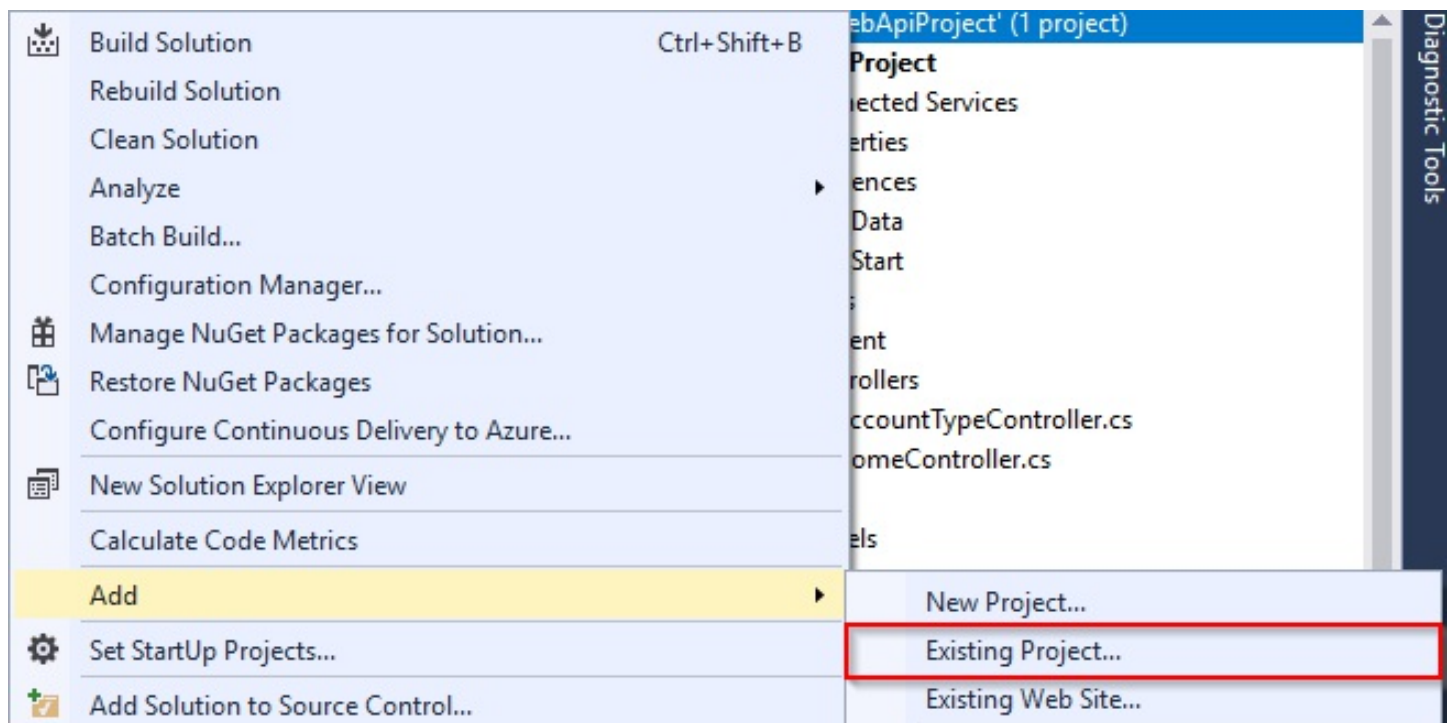
Notice that is not necessary to input the full AccountTypeController since MVC already publish the API in a redable way.

Click the Send Button

- On the body (on bottom part of Postman) you will see the text that you input in the Controller



Now Import the DAL Project to the Existing Solution and the DTO Project
Right click on the Solution (WebApiProject on Top)



Don't forget to add a Reference to the DAL project in you Web API Project.

Now modify the AccountTypeController to Return all the AccountTypes on the Get Method

```
public class AccountTypeController : ApiController
{
    public List<AccountTypeResponse> Get()
    {
        var mapAccountTypeResponse = new List<AccountTypeResponse>();

        var provider = new DAL.AccountTypeProvider();
        var dataResult = provider.GetAccountTypes();

        //Lets use AutoMapper
```

```

        foreach (var item in dataResult)
        {
            mapAccountTypeResponse.Add(new AccountTypeResponse
            {
                AccountTypeID = item.accountTypeID,
                AccountTypeName = item.accountTypeName
            });
        }
        return mapAccountTypeResponse;
    }
}

//Move this to a DTO.Common Project
public class AccountTypeResponse
{
    public int AccountTypeID { get; set; }

    public string AccountTypeName { get; set; }
}

```

Run the Service and try again with Postman

Tip: Add the Connections string section to the Web Config on the Web API Project

*If you run in problems because **No Entity Framework provider***

found for the ADO.NET provider with invariant name is not register go to Tool --> Nuget Packager Manager --> Packager Manager Console

*On the console type the following: **Install-Package EntityFramework***

Run the Service and Try Postman

You should be able to see the Result like this

