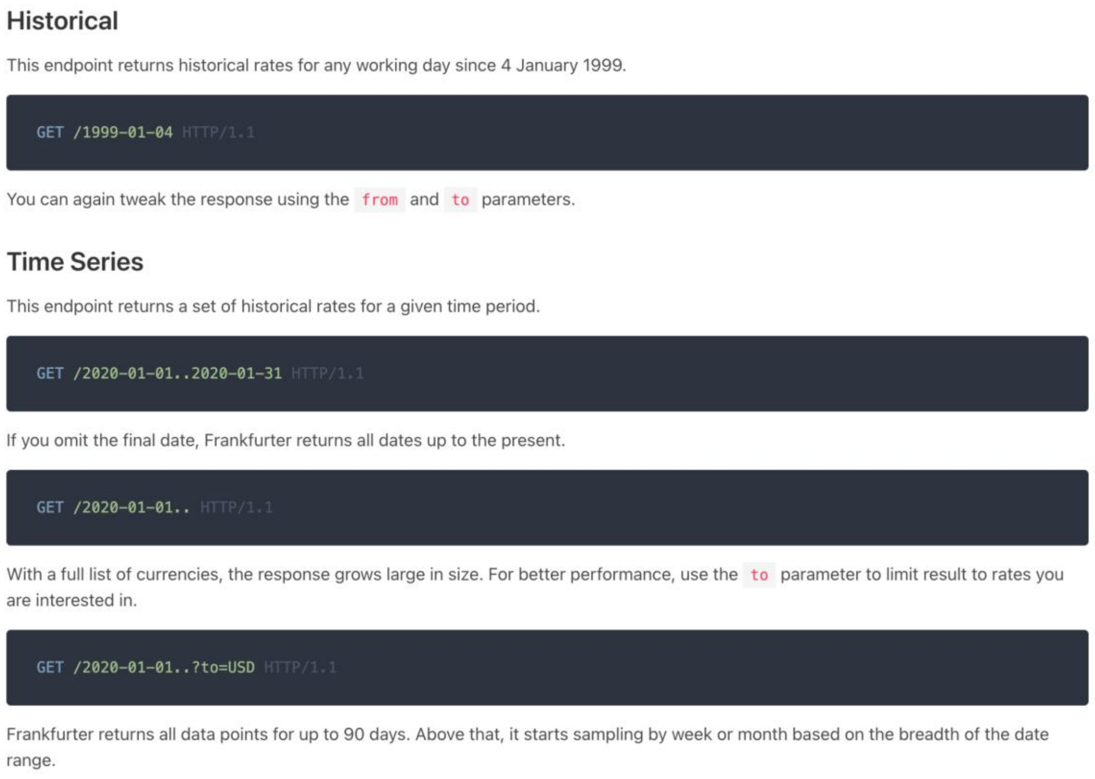
Calculate amount assignment

1. We are going to use https://www.frankfurter.app/ to fetch currency rates
2. Go to the documentation https://www.frankfurter.app/docs/#historical



Historical

This endpoint returns historical rates for any working day since 4 January 1999.

```
GET /1999-01-04 HTTP/1.1
```

You can again tweak the response using the `from` and `to` parameters.

Time Series

This endpoint returns a set of historical rates for a given time period.

```
GET /2020-01-01..2020-01-31 HTTP/1.1
```

If you omit the final date, Frankfurter returns all dates up to the present.

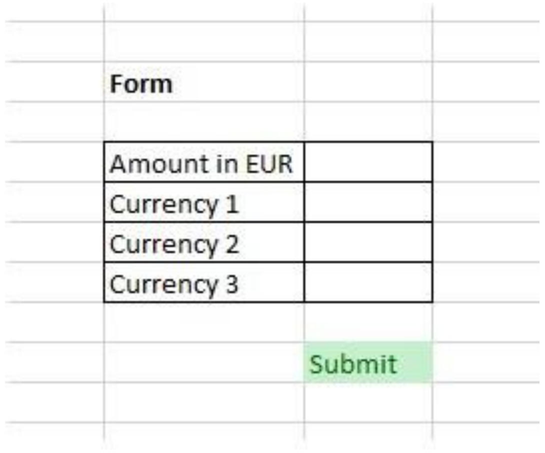
```
GET /2020-01-01.. HTTP/1.1
```

With a full list of currencies, the response grows large in size. For better performance, use the `to` parameter to limit result to rates you are interested in.

```
GET /2020-01-01..?to=USD HTTP/1.1
```

Frankfurter returns all data points for up to 90 days. Above that, it starts sampling by week or month based on the breadth of the date range.

3. Create a form that will let the user input:
   - Amount in **EUR**
   - 3 currencies (for example: USD, ILS, CAD)

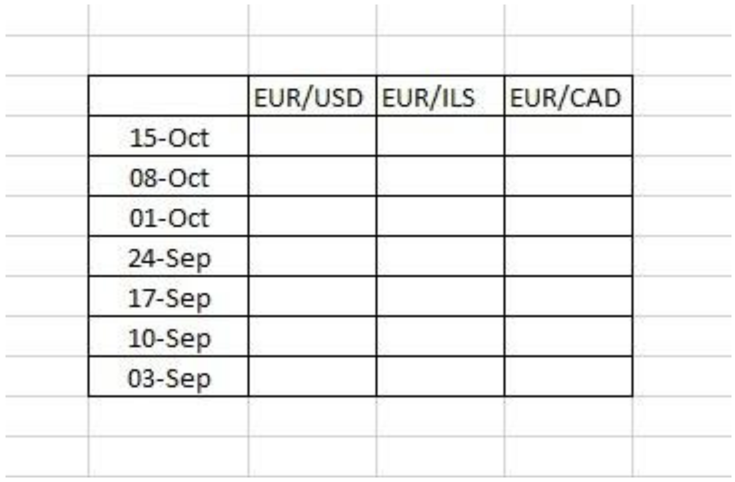


Form

Amount in EUR	
Currency 1	
Currency 2	
Currency 3	

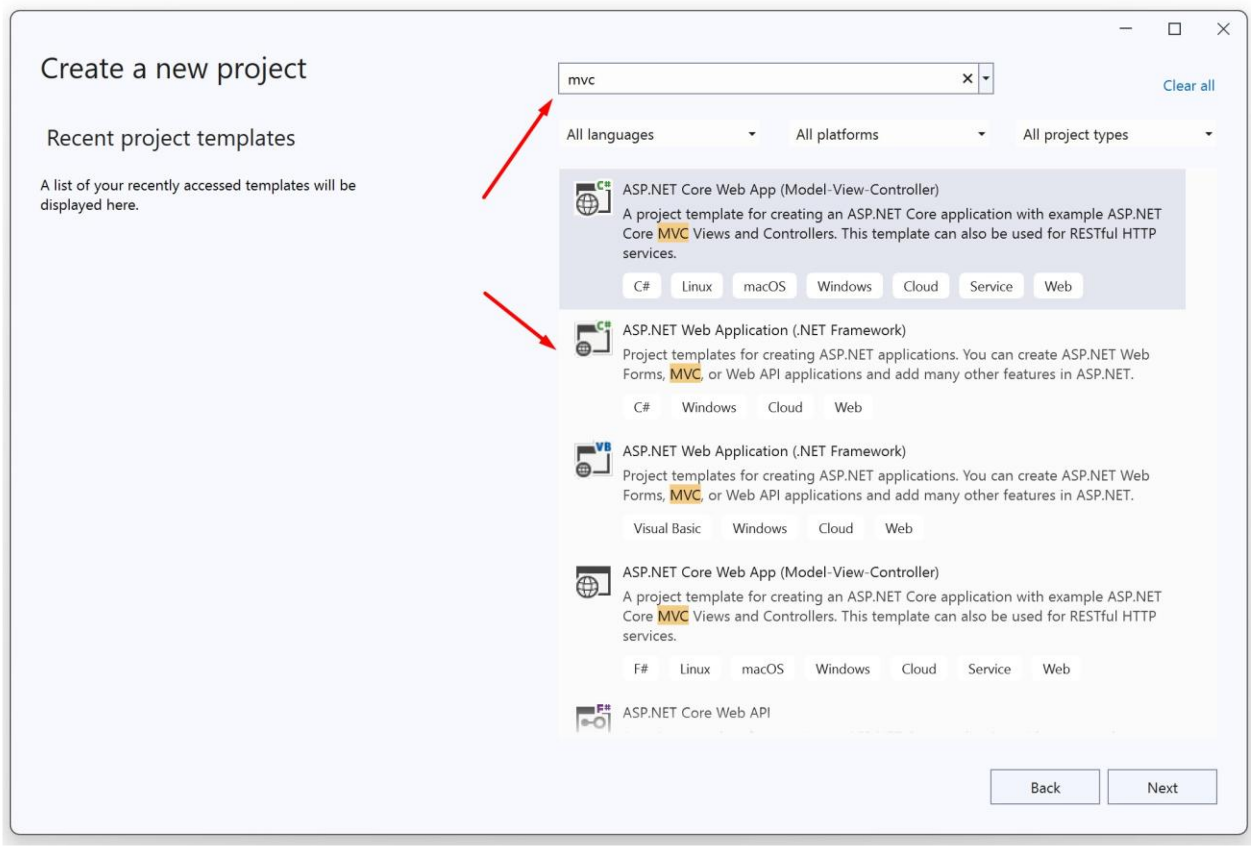
   - Currencies can be a drop down list of predefined currencies

4. Clicking the Submit button will perform an ajax request to the server to get the EUR rates for these currencies of every Monday for the past 7 weeks, Starting today.
   We expect to get 7 rows.
   Note
5. Display the calculated amount for every week in each currency.
   For every currency, the highest amount will be marked green and the lowest in red.
   <u>Result should “like” this</u>



	EUR/USD	EUR/ILS	EUR/CAD
15-Oct			
08-Oct			
01-Oct			
24-Sep			
17-Sep			
10-Sep			
03-Sep			

   Display a grid with the results, if possible with a fade in/scroll down effect.
   a. The grid should be centered in the screen
   b. The header should be in a different color then the body.
   c. Data rows should also get a different color and should be alternating.
6. Decide on a scenario that will throw an exception at the server (like specific amount/invalid currency) and show the error in a popup/div at the client
7. Try to make your solution efficient (if a user requests to change the amount – don’t get rates you already requested from the api
8. Make it an MVC app
9. At the client side use plain javascript+jQuery/underscore (no other frameworks/libraries like Angular/react..)


Create a new project

Recent project templates

A list of your recently accessed templates will be displayed here.

mvc

Clear all

All languages | All platforms | All project types

ASP.NET Core Web App (Model-View-Controller)
A project template for creating an ASP.NET Core application with example ASP.NET Core MVC Views and Controllers. This template can also be used for RESTful HTTP services.
C# Linux macOS Windows Cloud Service Web

ASP.NET Web Application (.NET Framework)
Project templates for creating ASP.NET applications. You can create ASP.NET Web Forms, MVC, or Web API applications and add many other features in ASP.NET.
C# Windows Cloud Web

ASP.NET Web Application (.NET Framework)
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Visual Basic Windows Cloud Web

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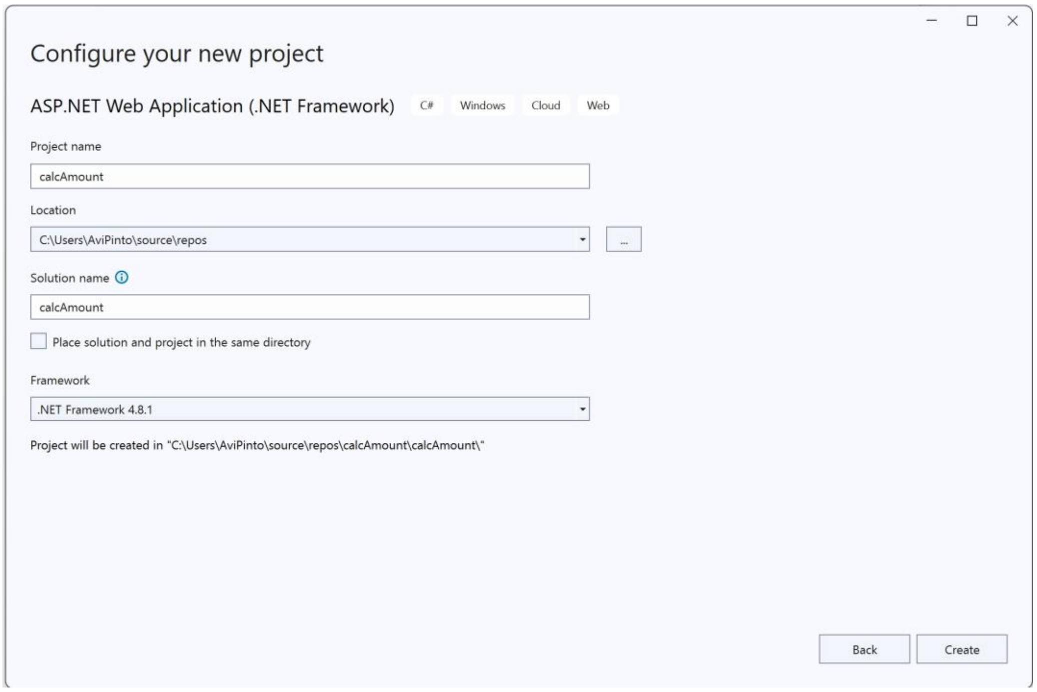
F# Linux macOS Windows Cloud Service Web

ASP.NET Core Web API


Configure your new project

ASP.NET Web Application (.NET Framework) C# Windows Cloud Web

Project name: calcAmount

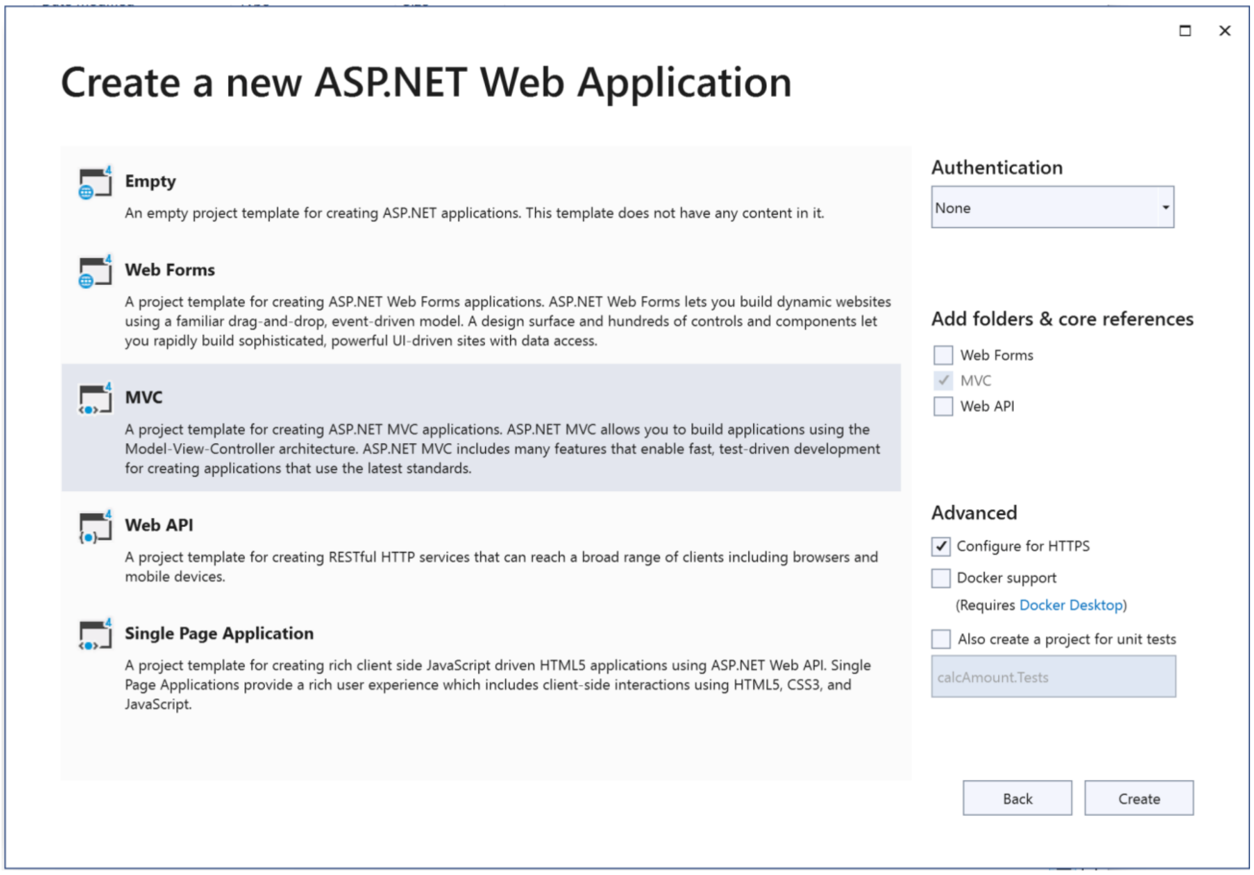
Location: C:\Users\AviPinto\source\repos

Solution name: calcAmount

☐ Place solution and project in the same directory

Framework: .NET Framework 4.8.1

Project will be created in "C:\Users\AviPinto\source\repos\calcAmount\calcAmount\"



Create a new ASP.NET Web Application

Empty
An empty project template for creating ASP.NET applications. This template does not have any content in it.

Web Forms
A project template for creating ASP.NET Web Forms applications. ASP.NET Web Forms lets you build dynamic websites using a familiar drag-and-drop, event-driven model. A design surface and hundreds of controls and components let you rapidly build sophisticated, powerful UI-driven sites with data access.

MVC
A project template for creating ASP.NET MVC applications. ASP.NET MVC allows you to build applications using the Model-View-Controller architecture. ASP.NET MVC includes many features that enable fast, test-driven development for creating applications that use the latest standards.

Web API
A project template for creating RESTful HTTP services that can reach a broad range of clients including browsers and mobile devices.

Single Page Application
A project template for creating rich client side JavaScript driven HTML5 applications using ASP.NET Web API. Single Page Applications provide a rich user experience which includes client-side interactions using HTML5, CSS3, and JavaScript.

Authentication
None

Add folders & core references
- [ ] Web Forms
- [✓] MVC
- [ ] Web API

Advanced
- [✓] Configure for HTTPS
- [ ] Docker support
  (Requires Docker Desktop)
- [ ] Also create a project for unit tests
  calcAmount.Tests