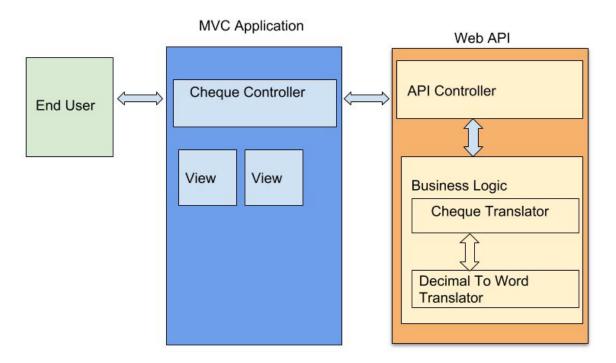
AKQA Cheque Translate technical description

Target Frameworks: Microsoft .NET Framework 4.61

Flow Diagram



Dependencies:

- 1. Ninject
- 2. Ninject.WebApi.DependencyResolver
- 3. Ninject.Web.Common
- 4. nunit.framework
- 5. NSubstitute

Technical Description (Project Structure):

1. Cheque.Writing.WebAPI

Web API application containing endpoint to translate the check into worlds

2. Cheque.Writing.App.csproj

MVC5 front end application utilizing "Cheque.Writing.WebAPI" project to get JSON response using REST call and display the translation in words

3. Cheque.Writing.Entities.sproj

Containing Entities utilized by Web API project transmit the database back to end user inform or JSON or XML depending on the request type

4. Cheque.Writing.Common.csproj

Common project containing common functionality such as "NuberstoWords" class used to convert int64 to words class and "Int64ToWordsExtension" Extension method class for Int64 to Words.

5. Cheque.Writing.App.Business.csproj

contains business logic to translate check in to words. IT contains concrete class "TranslateChequeToWords" having function to get Account holder name and amount of check.

6. Cheque.Writing.WebAPI.Tests.csproj

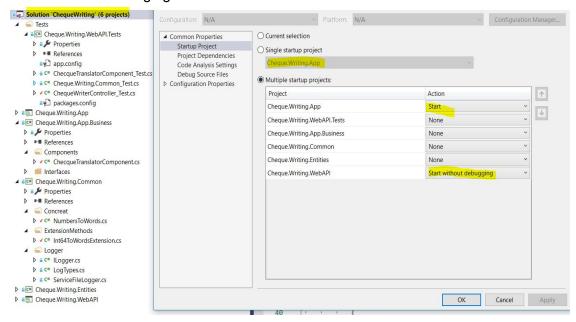
Contains Testing function for Web API controller , NumberstoWord and TranslateChecqueToWords classes

Programming techniques utilized:

- Inversion of control
- dependency injection using "Ninject.WebApi.DependencyResolver"
- For testing I used "nunit" and "NSubstitute"

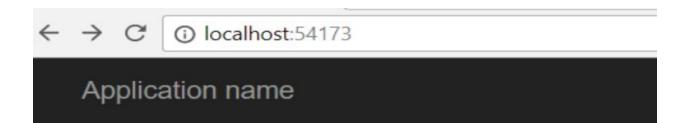
How to Run:

1) Enable project setting for both for Both WebAPI and MVC project to run in parallel as shown in the following figure



Note: Second option is to host your Web API(Cheque.Writing.WebAPI) application on IIS server and update BaseUrl ("baseUrl") in web.config of "Cheque.Writing.App" project. baseUrl Key: <add key="baseUrl" value="http://localhost:54208/"/>

2) Once you run both api and mvc application, provide input value in the following screen as shown in below image and press submit button.



Please Enter the Name and

Name:	Muhammad Saqib Khan	*
Amount:	25.69	*
	Submit	

3) You will see the following result.

	ina	ex - IV	IV ASP.NET App X
\leftarrow	\rightarrow	C	① localhost:54173/Checque/TranslateCheck

Application name

D . . . M ACRAITT A . . .

CheckWriter

Name: Muhammad Saqib Khan

Amount : TWENTY FIVE DOLLER(S) AND SIXTY NINE