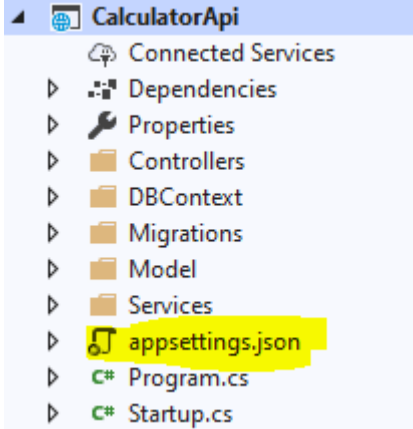


Code has been uploaded at following location

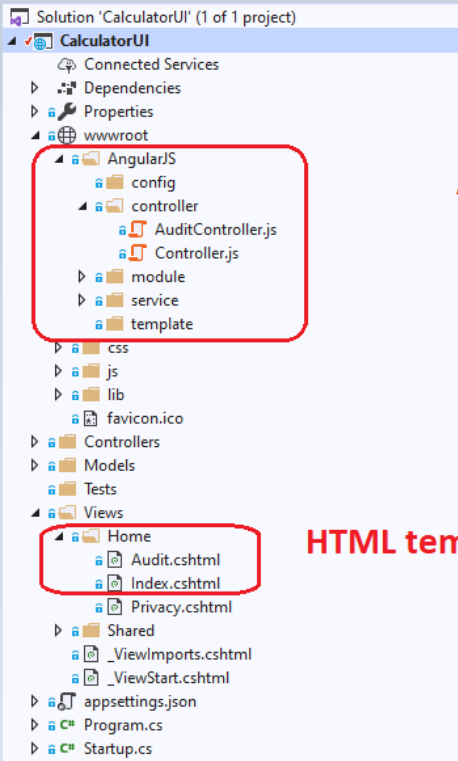
<https://github.com/hardeep58036/Calculator>

How to run API locally

1) Open <code>\$\CalculatorApi\CalculatorApi.sln</code> project. (Restore nuget package manager if needed)	
	
2) Open <code>appsettings.json</code> Update connection string (if needed)	
<pre>"ConnectionString": { "HardeepCalculator": "Server=.;Database=hardeep_calculator;Trusted_Connection=True;" }</pre>	
3) Open Package Manager Console Tools--> Nuget Package Manager --> Package Manager console Run following command Update-database	
4) Press <code>Ctrl+F5</code> to start the API. Swagger page shall show api definition	

How to run UI Locally

1) Open <code>\$\CalculatorUI\CalculatorUI.sln</code>



AngularJS code here

HTML template here

If API from previous step is running on port **56873** then no change needed in UI project

If port URL or port is different then update the port in following file:
\$\\CalculatorUI\\wwwroot\\AngularJS\\service\\Service.js
var baseUrl = "http://localhost:56873/";

2) Run the UI from visual studio

Test Deployment

System has been deployed Cloud (Azure) for testing.

UI

<http://hardeepcalculatorui.azurewebsites.net/>

API

<http://hardeepcalculatorapi.azurewebsites.net/swagger/index.html>

Hardeep Calculator

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And DB entries can be viewed as below:

Hardeep Calculator - Audit list

IP Address	Date (utc)
::1	Aug 25, 2020 9:01:19 AM
::1	Aug 25, 2020 9:10:46 AM
2.222.178.201	Aug 25, 2020 9:26:50 AM

Further Changes

Further changes can be added to enhance the project

- 1) Add Unit tests coverage to UI project with Jasmine/Karma etc.
- 2) Add Acceptance tests (UI)
- 3) Add Integration tests to API
- 4) I chose to use AngularJS with MVC as it helps to use power of MVC. AngularJS can be used with NPM as well for greater benefits.