

Imran Arshad
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Code Path: <https://github.com/imran30758/API>

API Test

IDE

MS Visual Studio 2017 Professional

Web Design

Single Page App - Responsive.

Tech Stack

C# .NET CORE, Angular 4, Underscore, Auto Mapper, HTML5, Bootstrap, CSS, Mock/Moq (Testing Frame work)

Design Patterns

Inversion of Control (IOC) / Dependency Injection (DI) Pattern, Repository Pattern

Unit Testing

Unit tests are part of the project.

Implementation Key Points

- Web is the startup project.
- Restore all the packages (node_module folder) for Angular 4. In visual studio, under “Web” Project right click on package.json and “Restore Packages”.
- Rebuild and Compile the Solution in Visual Studio 2017 and run.

Task

- Underscore.js is used to group and sort the external API response and Angular 4 SPA to Display it.
- External API is configured in appsettings.json
- As part of SOLID, I have created Interface IHttpclient to deal with external API calls, which can be extended to call more APIs simply by adding new Api Urls in appsettings.json
- ClientApp folder contains the client/Angular 4 code and is configured in middleware.
- The API response is transformed to object Model; if desired it can be used to group and sort the response on server side using LINQ or to apply different operations on object model.