**Necessary Prerequisites:**

* Database NT\_DEMO and table ENTITIES needs to be created.



**Read Configuration Endpoint:** /api/readconfiguration

Invokes GetConfigurationDataFromAllSources() in **ReadConfigurationController**.

* This method invokes GetAllConfigurationDataAsync() in **ReadRepository** via **IReadRepository**.
* GetAllConfigurationDataAsync() invokes RetrieveDataFromExternalSourcesAsync() in **ExternalSourcesRepository** via **IExternalSourcesRepository**.
* CallExternalAPIAsync() in **ExternalClient** will be invoked via **IExternalClient**, this will make api calls to external sources [postman mock server].
* Automapper is used for mapping models.
* Json received from CallExternalAPIAsync() will be combined with the result from Database and output is sent back to Client.

**Save Configuration Endpoint:** /api/saveconfiguration

* Invokes SaveConfigurationData() in SaveConfigurationController and creates model using **SaveRequestDto**.
* This method invokes SaveConfigurationDataAsync() with model received in the request in **SaveRepository** via **ISaveRepository**.
* Makes call to database using entity framework using **Entities** and **EntitiesDbContext**.
* If database contains configuration data, respective rows are updated using the request body else new rows get inserted.