**NavTech**

**.NET Coding Assessment**

* In this assessment created a Web API , Business Layer and Data Layer.
* As part of this assessment, I have created 3 API’s.

1.GetDefaultFields

2.GetCustomFields

3.SaveFields (Single Save)

* Written Unit Test cases using **NUnit Framework**.
* For Data Storage and retrieval used ADO .Net and .NET Framework Data Provider for SQL Server (Local DB)
* Implemented some validations like
  + EntityName should not be empty.
  + No details found.
  + EntityName is invalid.
* Handled Exceptions
* Returned responses with proper status code like 200, 404, 400 etc.….
* Created **store procedures** for retrieving and saving the data
  + pICg\_GetEntityFields
  + pICs\_SaveEntityFields
* Used **Postman tool** for testing the API’s
* Finally, the requirement was clear and due to time constraint and personal reasons was unable to do bulk insert and clean up configuration.

Sample Input and Output captured from Postman tool

1. Getting Default Values
   1. <http://localhost:63747/api/EntityConfig/GetDefaultFields?entityName=Product>
   2. Output

Graphical user interface

Description automatically generated

2.Get Custom Fields

a. <http://localhost:63747/api/EntityConfig/GetCustomFields?entityName=Product>

b.Output

A picture containing table

Description automatically generated

3.Save Fields

a. <http://localhost:63747/api/EntityConfig/SaveFields>

b.Ouput

Graphical user interface, text, application, email

Description automatically generated

4. While saving if entityname is invalid

a. <http://localhost:63747/api/EntityConfig/SaveFields>

b.Output

Graphical user interface, text, application, chat or text message

Description automatically generated

5. While Getting default/custom fields in entityname is not given

a. <http://localhost:63747/api/EntityConfig/GetCustomFields?entityName=>

b.Output

Graphical user interface, text, application, chat or text message

Description automatically generated

And I followed TDD while implementing the functionality.

**Thanks,**

**Rajesh G.**