**Below is the N-Tier Architecture has used for given solution**

**Web Layer API Layer Business Layer Data Layer**

MedStudy.DataAccess

MedStudy.ApplicationServices

MedStudy.Apis

Angular Web Application

MedStudy.UI

Common Layer

SQL Server

MedStudy.Test

MedStudy.Common

MedStudy.Interfaces

**Web UI Layer:**

MedStudy.UI has built in using Angular. This layer has used for designing the web application. This layer will talk the Rest API controllers.

**API Layer:**

This layer mainly designed for creating the Controller. These controllers will be called by UI layer. These Controllers implements Interface layer.

**Business Layer:**

This layer has used for implementing the business logic. This layer will be called by the Controllers and implements interfaces.

**DataAccess Layer:**

This layer has used for implementing the DB Communication. This layer will talk to the Database and runs the Stored Procedures. This layer will be called by Business Layer

**Interfaces:**

This layer has used by Controllers and Business layer which implements the interface methods

**Models:**

This layer has used to define the POCO classes which used for communicating between layers.

**Common:**

This layer has used for using the methods across the application which are commonly used. For example, JSon converter by Newtonsoft etc.

**Test:**

This layer has used for NUnit test cases for testing the methods with mock data

**Technologies Used:**

UI

* Angular

Backend

* .Net Core 6.0
* C#

Database

* SQL Server

**Project Structure:**

Angular

Text

Description automatically generated

Backend

