**Student Class Tech – Architecture**

This REST API is used to manage students and classes. We can use this API to create/update/get students and assigning classes to students using the http end points as mentioned below

**Technologies used to develop REST API**

* .Net Framework 4.7.2
* C#
* Entity Framework DB First Approach
* WEB API REST
* SQL Server
* Advanced Rest Client – Tool for testing the requests

**Project Architecture**

Here the main requirement is to develop the REST API which will be useful for any client (web, mobile or any API consumers) to manage the students and classes. So, here I followed the two-tier architecture which consists of two modules

1. SC.DataLayer
2. SC.RestWebAPI

**SC.DataLayer**

This layer is used to manage the database communication, our rest api will communicate with this layer to transaction in the database. So, complete data models exist in this project. Here I used entity framework database first approach. Due to this layer REST API don’t have access directly to database. It needs to communicate the DB through data layer project which library project.

**SC.RestWebAPI**

This layer is a REST api which is used by clients to manage students and classes through different end points. Here I used .Net Framework 4.7.2 ASP NET Web API technology to develop the REST API. Please verify the API Documentation for different end points to manage the student and classes.