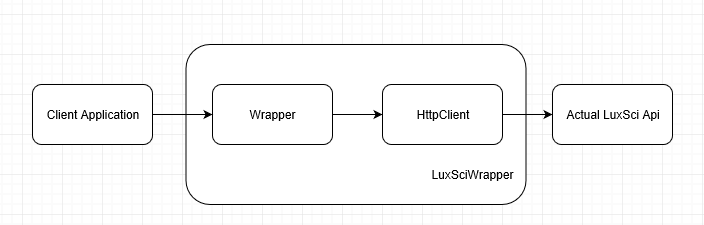
**LuxSciApiWrapper**

Flow of the LuxSciApiWrapper is shown in the below diagram.



As shown in the diagram, LuxSciWrapper has two components(layers), wrapper and HttpClient. Wrapper gets the request from client application and sends the data to HttpClient. HttpClient will make the api call.

**Wrapper**

Wrapper is divided into 3 wrappers as it is organized in the api documentation.

**AuthApiWrapper**- AuthApiWrapper has code to get the authentication code (first api call for all calls).

Also, AuthApiWrapper has a few functions which are required to make the api calls, GetHMACSignature, GetEpochSeconds ComputeSHA, etc.,.

**UserApiWrapper**- UserApiWrapper builds url, authentication code, signature related to user api and pass those information to corresponding httpClient(UserHttpClient).

**AccountApiWrapper**- AccountApiWrapper builds url, authentication code, signature related to Account scope api and pass those information to corresponding httpClient(AccountHttpClient).

**HttpClient**

**LuxApiHttpClient** - is a base HttpClient class which has common properties and functions required for UserHttpClient and AccountHttpClient. Common things include, base address, HttpClientHandler,Get,Post and Send functions.

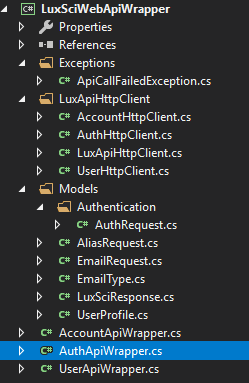
**UserHttpClient**- UserHttpClient gets authentication, signature and other required information from UserApiWrapper and creates the HttpClientHandler and invokes the base HttpClient (LuxApiHttpClient) functions, Get,Post or Send.

**AccountHttpClient**- AccountHttpClient gets authentication, signature and other required information from AccountApiWrapper and creates the HttpClientHandler and invokes the base HttpClient (LuxApiHttpClient) functions, Get,Post or Send.

**Models**

Models are data class which are used throughout the LuxapiWrapper. Models are mainly used to pass the data from one layer to another layer.

**Structure of the project is given below.**



**How to use the LuxApiWrapper library.**

I have added a test project along with LuxApiWrapper. User of this wrapper can just copy and paste the code written in the test methods to make the LuxSci api calls. User needs to change the credentials and other config values as per their api account.

<appSettings>

<add key="ApiSecretKey" value="eK3juc8rResVhI0jmwiHpkHzRn81oMe0U2D3lUwhh60"/>

<add key="ApiToken" value="wQp4iKJkh0HWH5d0i0RsnnZvXg0CAo70RflPmjRquzM"/>

<add key="UserName" value="admin@csharpapi.trial6.luxsci.net"/>

<add key="Password" value="p7gemx5?x"/>

<add key="Host" value="rest.luxsci.com"/>

<add key="AuthPath" value="perl/api/v2/auth"/>

<add key="UserPath" value="/perl/api/v2/user"/>

<add key="AccountPath" value="/perl/api/v2/account/"/>

<add key="AccountId" value="18396"/>

</appSettings>