<u>Assumptions</u>

1. In the Airport database link - https://app.goflightlabs.com/dashboard#airports under API documentation, I was unable to figure out the exact API that would fetch the airport details for a particular Airport name when the name of the airport is supplied as a request parameter. For e.g the below API did not work :

https://app.goflightlabs.com/airports?access_key=eyJ0eXAiOiJKV1QiLCJhbGciOiJSUzI1NiJ9.e yJhdWQiOiI0IiwianRpIjoiMTYxOGIzYjJjNDNlYzZhY2Y3ODhhNmNmYzhlNDllZDI3YzYxNjZjNW E0M2Q3OWE0NTllMzdhMjkxNWZkMDIzYmEwNjE3MjBkYTQ0Nzk4MDkiLCJpYXQiOjE2ODY3 NDMwNDcsIm5iZiI6MTY4Njc0MzA0NywiZXhwIjoxNzE4MzY1NDQ3LCJzdWIiOiIyMTE3MCIsIn Njb3BlcyI6W119.EPT2a4m_xmUfWOSK47GeH8J1iCxAIa_dUs3BBkcKE_JKbUj8aNNEs7PAfbz 6b84nAGG0rJtr7Y5rhJBv38C__g&**nameAirport**=Arrabury

So, I considered the below API where all the Airport details are being fetched without sending any request parameter.

https://app.goflightlabs.com/airports?access_key=eyJ0eXAiOiJKV1QiLCJhbGciOiJSUzI1NiJ9.e yJhdWQiOiI0IiwianRpIjoiMTYxOGIzYjJjNDNlYzZhY2Y3ODhhNmNmYzhlNDllZDI3YzYxNjZjNW E0M2Q3OWE0NTllMzdhMjkxNWZkMDIzYmEwNjE3MjBkYTQ0Nzk4MDkiLCJpYXQiOjE2ODY3 NDMwNDcsIm5iZiI6MTY4Njc0MzA0NywiZXhwIjoxNzE4MzY1NDQ3LCJzdWIiOiIyMTE3MCIsIn Njb3BlcyI6W119.EPT2a4m_xmUfWOSK47GeH8J1iCxAIa_dUs3BBkcKE_JKbUj8aNNEs7PAfbz 6b84nAGG0rJtr7Y5rhJBv38C__g

The response from this is then traversed over a FOR loop to find the IATA code for the Airport name that is entered as the input value.

This uses up a lot of memory and time , an exact API to fetch the details for a particular Airport name would be better , however could not be found in the API documentation.

2. I have used the below API(was given in the API document) for fetching the airport details for a particular IATA Code

https://app.goflightlabs.com/airports?access_key=eyJ0eXAiOiJKV1QiLCJhbGciOiJSUzI1NiJ9.e yJhdWQiOiI0IiwianRpIjoiMTYxOGIzYjJjNDNlYzZhY2Y3ODhhNmNmYzhlNDllZDI3YzYxNjZjNW E0M2Q3OWE0NTllMzdhMjkxNWZkMDIzYmEwNjE3MjBkYTQ0Nzk4MDkiLCJpYXQiOjE2ODY3 NDMwNDcsIm5iZiI6MTY4Njc0MzA0NywiZXhwIjoxNzE4MzY1NDQ3LCJzdWIiOiIyMTE3MCIsIn Njb3BlcyI6W119.EPT2a4m_xmUfWOSK47GeH8J1iCxAIa_dUs3BBkcKE_JKbUj8aNNEs7PAfbz 6b84nAGG0rJtr7Y5rhJBv38C__g&**codeIataAirport**=AAH

3. Under Technical Requirements in the requirement document , I was asked to use JSON attributes "airport_name", "iata_code" and "timezone". But in the response body for the API , I found different attribute names as below

{"success":true,"data":[{"GMT":"-10","airportId":1,**"codeIataAirport"**:"AAA","codeIataCity":"AAA","codeIcaoAirport":"NTGA","codeIso2Country":"PF","geonameId":"6947726","latitudeAirport":-17.05,"longitudeAirport":-145.41667,**"nameAirport"**:"Anaa","nameCountry":"French Polynesia","phone":"","timezone":"Pacific\/Tahiti"},

So I considered JSON attributes **codeIataAirport** instead of iata_code , **nameAirport** instead of airport_name.

4. The access key is hard coded in the class for now. If we want the access key to be dynamic we can think of storing it in salesforce and fetching it from there(this will require a work around).

5. Further, the Apex test class will not let us conduct an HTTP callout. Hence, we cannot test external APIs. But, Apex does have an interface called HttpCalloutMock for standard callout tests. So , I created a Mock class and a fake response for testing the methods.