Coding Challenge

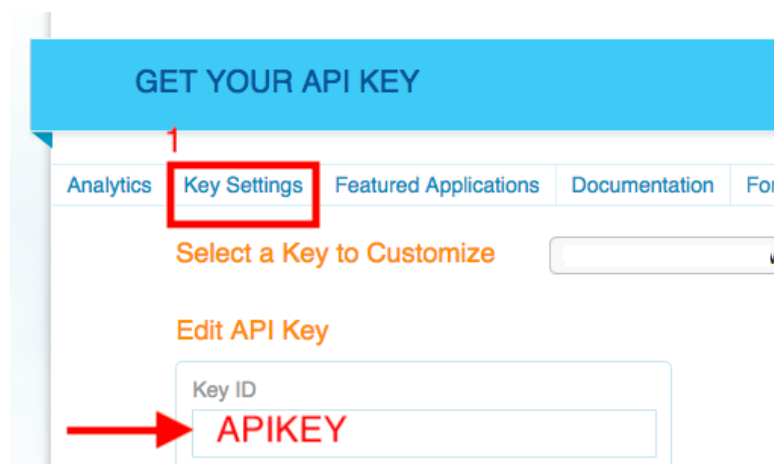Prepared by: blueground IT Team

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Intro

Blueground is a corporate hospitality company that offers beautifully furnished and serviced apartments to business travelers and expats, for durations of 1+ months. In order to ensure that our clients always receive the highest possible quality of service, we want to be able to inform them about the weather conditions.

We would like to integrate this new functionality in our business system. WeatherUndeground is a famous website which provides globally weather information.

Steps

You have to sign up with your email account at www.wunderground.com. After your successful activation of your account, you have to navigate at this page https://www.wunderground.com/weather/api/d/pricing.html and choose 'Stratus plan' and proceed to 'Purchase Key'. After this step you will obtain your personal API KEY which you would be able to copy from 'Key Settings' tab as you can see in the image below.

There are several examples in which the manipulation of API KEY is like that:

example 1: http://api.wunderground.com/api/*APIKEY*/**almanac**/q/CA/San_Francisco.json

Goal

Assume you are given a mission to get the **_daily summary_** of **_New York_** city for **_2017/10/30._**

example 2: http://api.wunderground.com/api/APIKEY/history_YYYYMMDD/q/NY/New_York.json

What you should submit

Table 1	
No	**Objectives**
1	a Java program which accomplish the Goal(*example 2*).(Read the Json Response successfully.)
2	Emits an output file with the metrics from the *Table 2*.
3	a brief document with an overview of your design.

Table 2	
Metric	**Keyword**
Max percentage humidity	maxhumidity
Max Temp in C	maxtempm
Min Temp in C	mintempm
Precipitation in mm	precipm

Important Notes

- Try to design your code to be modular (Classes, Objects etc).
- You have to be careful cause the **max** limit of calls per minute is **10** and **500** per day. Surpassing limits you'll be locked for 1 day.
- You have 3 days to send at dev@theblueground.com your link from GitHub with your uploaded code.
- Those that they will complete this challenge successfully, they will be invited at our premises for a second coding test