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CSS 436

Program 2

Description

This program is a client app which consumes two RESTful API's. The first API is from

http://openweathermap.org/api. This API allowed me to return weather information, specifically

I report on the Temperature. The second API is from http://aqicn.org/api/. This API allowed me

to return air quality information to the user, specifically I report on the AQI. To access these

API's I used HTTP GET methods from the web. Once I get a response from these API's it is

JSON format, I then deserialize the JSON into objects to work with in Java. To deserialize the

JSON response I used Gson which is included as a .jar file with my submission. When testing I

ran on the command line on my Mac, which is similar to linux. The program takes in a city name

as from the command line arguments and returns the current temperature, and air quality for that

city. The program utilizes back-off logic on the API calls which return 5xx response codes.

How to Build:

- Include "gson-2.8.6.jar" and "Main.java" files in same directory

- Cd into directory holding these files

- Compile java program through command line with command

- javac -cp ./:./gson-2.8.6.jar Main.java

- Then run program through command line with command

- java -cp ./:./gson-2.8.6.jar Main seattle

- "Seattle" in command line can be replaced with any city name