

Introduction to Java

CSGY 9053

Project Report

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Project Topic: Weather Forecasting App

Introduction:

Weather apps are primarily used to learn about local and global weather conditions. Thanks to the world wide web and local weather stations, the weather app on your devices can keep us up to date with the latest developments in global weather.

The project we are proposing will be a weather prediction application using java which will give the weather information for next week. We will be using an API which will give us the data which will be displayed. This includes temperature, humidity, pressure and wind. The user will be able to enter the location for which they want to view the weather.

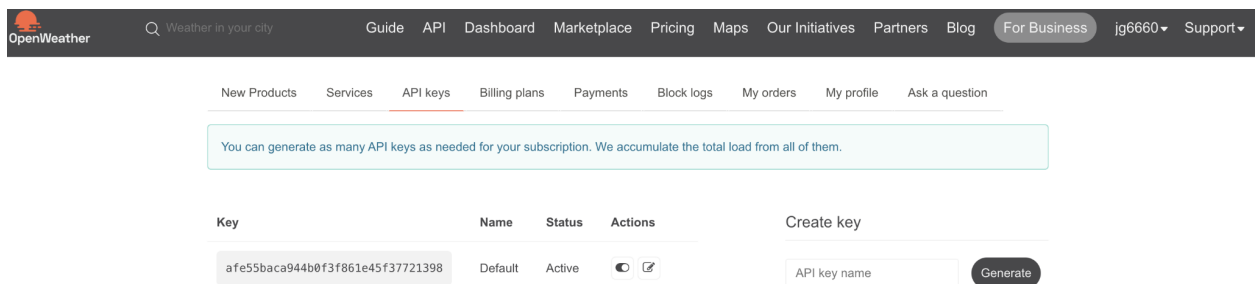
The user will be able to enter the location in the search box and we will then fetch the weather details and display the forecast for the week in that place. We will fetch the city names that match the user input and the weather details using a get request.

How to run the project:

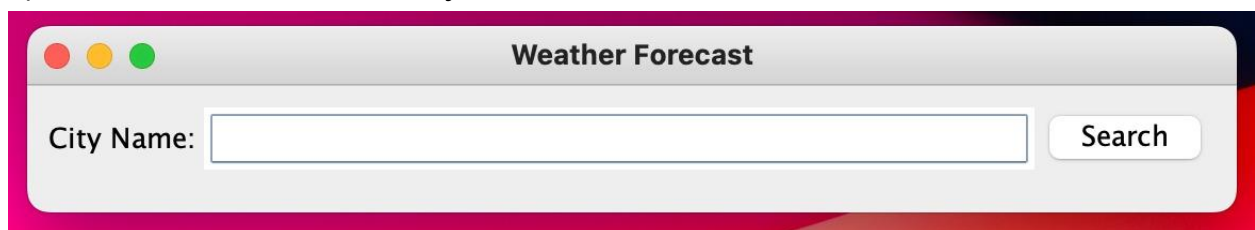
- Download the zip file and extract to the desired location.
- Go to <https://openweathermap.org/api>
- Create your account and generate the API key.
- Copy the API key and paste it in OpenWeatherAPIConnection.java.
- Run the program as a JAVA application using Eclipse. Select the weather-forecast-master.
- Enter the city name you want to search.
- Select the city.
- Select the date for which you want to see the weather.

Screenshots:

1) Create API key using Openweather API.



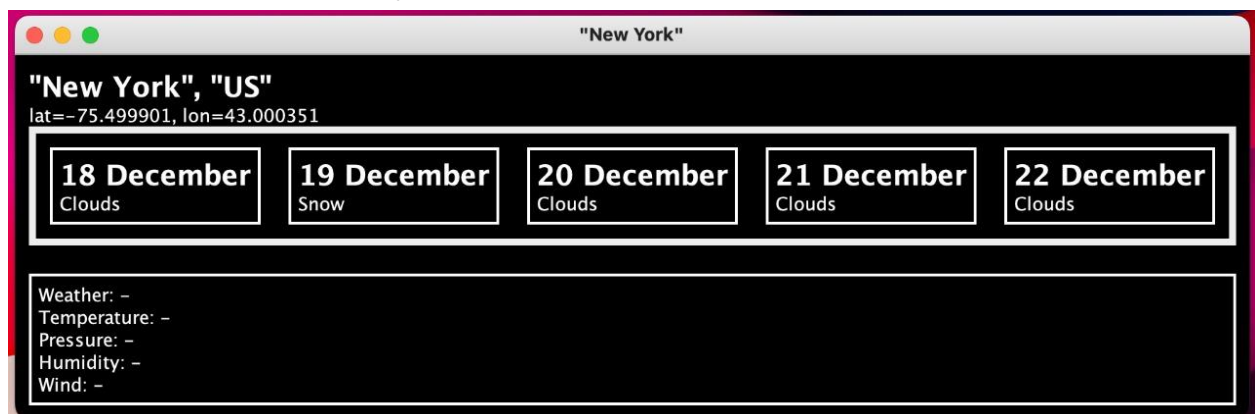
2) Enter the name of the city we want the weather forecast to.



3) All the matching cities are shown



4) Select the desired city



5) Select the desired date



Technologies Used:

- Java Swing; GUI
- Rest API
- Event Handling
- Maven Dependencies
- JSON data