Version 1.1

The Version 1.1 receive Three more classes one that its able to parse the Json string, and another one that will hold the Weather values received from the API.

This class use a library called GSON, version 2.8.2, that have the methods necessary to parse a JSON file.

The class Json Parser allow us extract the information some Map and ArrayLists from Json into a Java data structure. This make it possible to later create an a Weather Object with de data necessary.

The Class Weather hold some variables that we evaluate necessary for further comparison in order to the Chatbot give advice for the user. The Class Location complete the Weather class holding the location that user wants to know the weather.

Screenshots - Json Parser

```
package avenger.weather.jsonParser;
mport com.google.gson.Gson;
 public class jsonParser {
// This method parser the <u>Json</u> String and create the Weather Object
     public Weather jsonStringParser(String jsonString) {
         //Transform the string received from the API in a MAP
         Map<String, Object> respMap = jsonToMap(jsonString.toString());
         //Breakdown to get all the information
         Map<String, Object> mainMap = (Map<String, Object >)respMap.get("main");
         Map<String, Object> windMap = (Map<String, Object >)respMap.get("wind");
         //One of the parts of Json is a list and them transform to map
         List<Map<String, Object >> weather = (List<Map<String, Object>>) (respMap.get("weather"));
         //Then you can transform as a MAP
         Map<String, Object> weatherMap = weather.get(0);
         //Here you can create an Weather Object to return it
         return new Weather(mainMap, windMap, weatherMap);
 // Get the jsonString and extract to a MAP
    private static Map<String, Object> jsonToMap(String str) {
         Map<String, Object> map = new Gson().fromJson(str, new TypeToken<HashMap<String, Object>>() {
         }.getType());
         return map;
```

```
package avenger.weather.weatherRequested;
import java.util.Map;
public class Weather {
     private String main;
private String description;
     private double temp;
     private double min;
     private double max;
     private double feelsLike;
     private double windSpeed;
     private Location location;
     public Weather(Map<String, Object> mainMap, Map<String, Object> windMap, Map<String, Object> weatherMap) {
         this.main = (String) weatherMap.get("main");
this.description = (String) weatherMap.get("description");
         this.temp = (double) mainMap.get("temp");
this.min = (double) mainMap.get("temp_min");
this.max = (double) mainMap.get("temp_max");
this.feelsLike = (double) mainMap.get("feels_like");
this.windSpeed = (double) windMap.get("speed");
     Getters and Setters
     public String getMain() {[]
     public String getDescription() {
    public double getTemp() {
    public double getMin() {[]
    public double getMax() {[]
     public double getFeelsLike() {[]
     public double getWindSpeed() {
     public void setLocation(String city) {[]
     public Location getLocation() {[]
Screenshots - Location
 package avenger.weather.weatherRequested;
 public class Location {
        String city;
       String country;
        public Location(String city) {
              this.city = city;
              this.country = "Ireland";
        public String getCity() {
              return city;
        public String getCountry() {
              return country;
```