package com.example.containmentzone\_alert.models;

public class Plotaffectedareas {

private double latitude, longitude;

private String meaningfulDateTime;

private String rawLatLon, rawDateTime;

public Plotaffectedareas() {

}

public Plotaffectedareas(String latLon, String dateTime){

this.rawLatLon = latLon;

this.rawDateTime = dateTime;

// latLon = diagonal latLng point separated by ','

String[] splitLL = latLon.split(",");

// get the middle point

this.latitude = ( Double.valueOf(splitLL[0]) + Double.valueOf(splitLL[2]) ) / 2;

this.longitude = ( Double.valueOf(splitLL[1]) + Double.valueOf(splitLL[3]) ) / 2;

// dateTime = month-date-hour

String[] splitDateTime = dateTime.split("-");

this.meaningfulDateTime =

month(Integer.parseInt(splitDateTime[0])) +

" "+splitDateTime[1] +

", "+time(Integer.parseInt(splitDateTime[2]));

}

private String time(int time) {

if(time==0)

return "12AM";

if(time<12)

return time+"AM";

else

return (time-12)+"PM";

}

private String month(int month) {

switch (month){

case 1:

return "January";

case 2:

return "February";

case 3:

return "March";

case 4:

return "April";

case 5:

return "May";

case 6:

return "June";

case 7:

return "July";

case 8:

return "August";

case 9:

return "September";

case 10:

return "October";

case 11:

return "November";

case 12:

return "December";

default:

return "Unknown month";

}

}

public double getLatitude() {

return latitude;

}

public void setLatitude(double latitude) {

this.latitude = latitude;

}

public double getLongitude() {

return longitude;

}

public void setLongitude(double longitude) {

this.longitude = longitude;

}

public String getMeaningfulDateTime() {

return meaningfulDateTime;

}

public void setMeaningfulDateTime(String meaningfulDateTime) {

this.meaningfulDateTime = meaningfulDateTime;

}

public String getRawLatLon() {

return rawLatLon;

}

public void setRawLatLon(String rawLatLon) {

this.rawLatLon = rawLatLon;

}

public String getRawDateTime() {

return rawDateTime;

}

public void setRawDateTime(String rawDateTime) {

this.rawDateTime = rawDateTime;

}

@Override

public String toString() {

return "MapMarkerLocation{" +

"latitude=" + latitude +

", longitude=" + longitude +

", meaningfulDateTime='" + meaningfulDateTime + '\'' +

", rawLatLon='" + rawLatLon + '\'' +

", rawDateTime='" + rawDateTime + '\'' +

'}';

}

}