

RawData.java

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/*
 * Countries of the World App 1.0
 * RawData.java "RawData
 * Waleed Gudah
 *
 */

import java.io.*;

public class RawData {

    private String country;
    private String code;
    private String continent;
    private int area;
    private int population;
    private float lifeExpectency;
    private File file;
    private DataInputStream dataIn;
    private TheLog tLog;

    // *****//
    public RawData(String fileName, TheLog tLog) { // pass in string filename

        this.tLog = tLog;

        file = new File(fileName + ".csv");

        try {

            dataIn = new DataInputStream(

                new BufferedInputStream(new FileInputStream(file)));

        } catch (FileNotFoundException e1) {

            System.out.println("The file required could not be found "

                + "in the root path of this application");

        }
        tLog.statusFile("RawData FILE opened");
    }

    // *****//
    public boolean nextRecord() {

        try {

            seperate(dataIn.readLine());

        } catch (IOException e) {

            return false;

        }

        catch (NullPointerException f) {
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        return false;
    }

    return true;
}

// *****//
public void seperate(String raw) {
    raw = raw.substring(30, raw.length() - 2); // Cut off the ends
    raw = raw.replace("'", "");
    String[] oneRecord = raw.split(","); // Split the record up
    fillFields(oneRecord);
}

// *****//
public void fillFields(String[] oneRecord) {
    setCode(oneRecord[0]);
    setCountry(oneRecord[1]);
    setContinent(oneRecord[2]);
    setArea(Math.abs((int) Float.parseFloat(oneRecord[4])));
    setPopulation(Integer.parseInt(oneRecord[6]));
    setLifeExpectency(Float.parseFloat(oneRecord[7]));
}

// *****//
public void finishUp() {
    try {
        tLog.statusFile("RawData FILE closed");
        dataIn.close();
    } catch (IOException e) {
        e.printStackTrace();
    }
}

// *****//
public String getCode() {

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        return code;
    }

    // *****//
    public void setCode(String code) {
        this.code = code;
    }

    // *****//
    public String getContinent() {
        return continent;
    }

    // *****//
    public void setContinent(String continent) {
        this.continent = continent;
    }

    // *****//
    public int getArea() {
        if (area == 0) {
            return -1;
        }
        return area;
    }

    // *****//
    public void setArea(int area) {
        this.area = area;
    }

    // *****//
    public int getPopulation() {
        if (population == 0) {
            return -1;
        }
        return population;
    }

    // *****//
    public void setPopulation(int population) {

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        this.population = population;
    }

    // *****//
    public float getLifeExpectency() {
        if (lifeExpectency == 0.0) {
            return -1;
        }
        return lifeExpectency;
    }

    // *****//
    public void setLifeExpectency(float lifeExpectency) {
        this.lifeExpectency = lifeExpectency;
    }

    // *****//
    public void setFile(File file) {
        this.file = file;
    }

    // *****//
    public String getCountry() {
        return country;
    }

    // *****//
    public void setCountry(String country) {
        this.country = country;
    }
}
```