package com.lockedme;

import java.io.File;

import java.util.ArrayList;

import java.util.Arrays;

import java.util.Collections;

import java.util.List;

public class FileOperations {

public static void createMainFolderIfNotPresent(String folderName) {

File file = new File(folderName);

// If file doesn't exist, create the main folder

if (!file.exists()) {

file.mkdirs();

}

}

public static void displayAllFiles(String path) {

FileOperations.createMainFolderIfNotPresent("TestMain");

System.out.println("Displaying all files with directory structure in ascending order \n");

// Display files in ascending order

List<String> filesListNames = FileOperations.listFilesInDirectory(path, 0, new ArrayList<String>());

System.out.println("Displaying all files in ascending order\n");

Collections.sort(filesListNames);

filesListNames.stream().forEach(System.out::println);

}

private static List<String> listFilesInDirectory(String path, int count, List<String> FileListNames) {

File dir = new File(path);

File[] files = dir.listFiles();

List<File> filesList = Arrays.asList(files);

Collections.sort(filesList);

if (files != null && files.length > 0) {

for (File file : filesList) {

System.out.print(" ".repeat(count \* 2));

if (file.isDirectory()) {

System.out.println("`-- " + file.getName());

FileListNames.add(file.getName());

listFilesInDirectory(file.getAbsolutePath(), count + 1, FileListNames);

} else {

System.out.println("|-- " + file.getName());

FileListNames.add(file.getName());

}

}

} else {

System.out.print(" ".repeat(count \* 2));

System.out.println("Empty Directory");

}

System.out.println();

return FileListNames;

}

public static void searchFiles(String path, String fileName, List<String> fileListNames) {

File dir = new File (path);

File [] files = dir.listFiles();

List <File> fileList = Arrays.asList(files);

if (files != null && files.length > 0) {

for(File file : fileList) {

if(file.getName().startsWith(fileName)) {

fileListNames.add(file.getAbsolutePath());

}

if (file.isDirectory()) {

searchFiles(file.getAbsolutePath(),fileName,fileListNames);

}

}

}

}

}