package com.LockedMe;

import java.io.File;

import java.io.FileNotFoundException;

import java.io.IOException;

import java.nio.file.DirectoryNotEmptyException;

import java.nio.file.Files;

import java.nio.file.Path;

import java.nio.file.Paths;

import java.nio.file.StandardOpenOption;

import java.util.ArrayList;

import java.util.Collections;

import java.util.List;

import java.util.Scanner;

public class AppDetails {

static Scanner sc = new Scanner(System.in);

public static boolean welcome() {

System.out.println("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n");

System.out.println("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n");

System.out.println("\tWELCOME TO LOCKME.COM\n");

System.out.println("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n");

System.out.println("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n\n");

System.out.println("\*\*\*\*\*\*\*\*\*\*\* DEVELOPERS DETAILS \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n");

System.out.println("----------------Aman Chaurasia-----------------\n");

System.out.println("-----Organisation:XYZ Consultancy Services-------\n");

System.out.println(

"-----To Inquire, Contact:+91-7897275536----------\n\n--------MailTo:amanchaurasia040@gmail.com---------\n");

System.out.println(

("This Application is useful in:\n\n#Sorting files inside directory and its subdirectory \n#Adding file to a directory\n#Deleteing a file in a directory\n#Searching a file in a directory\n"));

System.out.println("\n\n\n Press YES to proceed ->->");

String str = sc.next();

while (true) {

if (str.equalsIgnoreCase("yes")) {

return true;

} else {

System.out.println("Invalid Entry!! Please press YES to continue");

str = sc.next();

}

}

}

public static void choices() {

while (true) {

System.out.println("\n\n\*\*\*Please Enter your choice\*\*\*\*\*\n");

System.out.println("Press 1: List current file names in ascending order");

System.out.println("Press 2: List user interfaces ");

System.out.println("Press 3: Close Application\n");

int n = sc.nextInt();

switch (n) {

case 1:

List<String> list = new ArrayList<>();

list = listFiles();

System.out.println("\n\*\*\*\*\*List of Files in Rootfolder and its subfolder\*\*\*\*\*\*\*\n");

for (int i = 0; i < list.size(); i++) {

System.out.println(list.get(i));

}

break;

case 2:

userInterfaces();

break;

case 3:

System.out.println("\*\*\*Application Closed\*\*\*\*");

System.exit(0);

break;

default:

System.out.println("Wrong choice!!! Please select the listed choices!");

}

}

}

public static ArrayList<String> listFiles() {

System.out.println("Enter Root Directory path");

String location = sc.next();

File file = null;

try {

file = new File(location);

} catch (NullPointerException e) {

System.out.println("Please enter correct Root directory");

e.printStackTrace();

}

File[] fs = file.listFiles();

ArrayList<String> list = new ArrayList<>();

list = read(fs, list);

Collections.sort(list);

return list;

}

public static ArrayList<String> read(File file[], ArrayList<String> list) {

for (File eachfile : file) {

list.add(eachfile.getName());

if (eachfile.isDirectory()) {

File fs[] = eachfile.listFiles();

read(fs, list);

}

}

return list;

}

public static void userInterfaces() {

System.out.println("\n\n\*\*\*Please Enter your choice\*\*\*\*\*\n");

System.out.println("Press 1: Add a file to the existing directory list");

System.out.println("Press 2: Delete a user specified file from the existing directory list");

System.out.println("Press 3: Search a user specified file from the main directory");

System.out.println("Press 4: Navigate back to the main context\n");

int n = sc.nextInt();

switch (n) {

case 1:

addFile();

break;

case 2:

deleteFile();

break;

case 3:

searchFile();

break;

case 4:

choices();

break;

default:

System.out.println("Wrong choice entered!");

}

}

public static void addFile() {

System.out.println("Enter Existing Directory Path with new file name\n Example: F:\\temp\\aman.txt \n");

Path path = Paths.get(sc.next());

List<String> list = new ArrayList<>();

try {

Files.write(path, list, StandardOpenOption.CREATE\_NEW);

} catch (IOException e) {

System.out.println("\nFile Exists!");

e.printStackTrace();

}

System.out.println("\nFile Created!");

}

public static void deleteFile() {

System.out.println("Enter the file to be deleted with absolute path\n");

Path path = Paths.get(sc.next());

try {

Files.deleteIfExists(path);

System.out.println("File Deleted!");

} catch (DirectoryNotEmptyException e) {

e.printStackTrace();

} catch (FileNotFoundException e) {

System.out.println(e.getMessage());

} catch (IOException e) {

e.printStackTrace();

}

}

public static void searchFile() {

System.out.println("\nEnter the file to be searched with extension Ex:test.txt");

{

String string = sc.next();

ArrayList<String> list = new ArrayList<>();

list = listFiles();

if (list.contains(string)) {

System.out.println("\nFile Exist!");

} else

System.out.println("\nFile do not exist!");

}

}

public static void main(String[] args) {

boolean check = welcome();

if (check) {

choices();

}

}

}