package com.services;

import java.io.File;

import java.io.IOException;

import java.util.Arrays;

public class FileManagement {

File f;

File dir = new File("C:\\Files");

String[] arrFileNames;

public void createDirectory() throws IOException {

if (!dir.isDirectory()) {

dir.mkdir();

}

}

public String createFile(String filename) throws IOException {

f = new File(dir + "\\" + filename);

String message = "";

if (f.exists()) {

message = "Sorry File Already Exist ...";

} else {

boolean result = f.createNewFile();

if (result) {

message = "File Created Successfully";

} else {

message = "File Creation Failed";

}

}

return message;

}

public String fileDeletion(String filename) {

f = new File(dir +"\\"+ filename);

if (f.exists()) {

f.delete();

return "File deleted";

} else {

return "File not found";

}

}

public String[] getAllFiles() {

return arrFileNames = dir.list();

}

public void searchFile(String searchedFile) {

f = new File(dir +"\\"+ searchedFile);

if (f.exists()) {

System.out.println("File Found");

} else {

System.out.println("File Not Found");

}

}

public void displayAllFiles(String[] arr) throws IOException {

if(arr.length > 0) {

Arrays.sort(arr);

System.out.println("\*\*\*\*\*\*\*\*\*\*\*\* Files in The Directory\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

for (int i = 0; i < arr.length; i++) {

System.out.println((i + 1) + ". " + arr[i]);

}

}else {

System.out.println("No Files In The Directory At The Moment");

}

}

}

package com.main;

import java.io.IOException;

import java.util.Scanner;

import com.services.FileManagement;

public class Menu {

public static void main(String[] args) {

FileManagement objFileManagement = new FileManagement();

Scanner sc = new Scanner(System.in);

String filename;

String result = "";

String[] arrFilenames;

int mainMenuOption = 0;

int innerMenuOption = 0;

System.out.println("----------Application Name : Key .......");

System.out.println("This application was made by Moeketsi Tsotetsi !");

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

System.out.println("");

try {

objFileManagement.createDirectory();

} catch (IOException e1) {

System.err.println(e1.toString());

}

do {

System.out.println("Press 1 To View All Files In The Directory");

System.out.println("Press 2 To View More Options");

System.out.println("Press 3 To Quit The Application");

System.out.println("");

try {

System.out.println("Enter Your Option Here");

mainMenuOption = Integer.parseInt(sc.next());

if (mainMenuOption == 1) {

arrFilenames = objFileManagement.getAllFiles();

objFileManagement.displayAllFiles(arrFilenames);

System.out.println("");

System.out.println("Enter 1 To Return To Main Menu , 7 To Exit The Application");

innerMenuOption = Integer.parseInt(sc.next());

if (innerMenuOption == 1) {

continue;

} else {

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

System.exit(0);

}

} else if (mainMenuOption == 2) {

System.out.println("");

System.out.println("Press 1 To Add A File In The Directory");

System.out.println("Press 2 To Delete A Specific File");

System.out.println("Press 3 To Search For A Specific File");

System.out.println("Press 4 To Return To Main Menu");

System.out.println("");

System.out.println("Enter your option(1-4)");

innerMenuOption = Integer.parseInt(sc.next());

if (innerMenuOption == 1) {

System.out.println("");

System.out.println("Enter File Name");

filename = sc.next();

objFileManagement.createFile(filename);

System.out.println("");

System.out.println("Enter 1 To Return To Main Menu , 7 To Exit The Application");

innerMenuOption = Integer.parseInt(sc.next());

if (innerMenuOption == 1) {

continue;

} else {

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

System.exit(0);

}

} else if (innerMenuOption == 2) {

System.out.println("");

System.out.println("Enter The File You Want To Delete");

filename = sc.next();

result = objFileManagement.fileDeletion(filename);

System.out.println(result);

System.out.println("");

System.out.println("Enter 1 To Return To Main Menu , 7 To Exit The Application");

innerMenuOption = Integer.parseInt(sc.next());

if (innerMenuOption == 1) {

continue;

} else {

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

System.exit(0);

}

} else if (innerMenuOption == 3) {

System.out.println("");

System.out.println("Enter The File You Want To Search");

filename = sc.next();

objFileManagement.searchFile(filename);

System.out.println("");

System.out.println("Enter 1 To Return To Main Menu , 7 To Exit The Application");

innerMenuOption = Integer.parseInt(sc.next());

if (innerMenuOption == 1) {

continue;

} else {

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

System.exit(0);

}

} else {

continue;

}

} else {

System.out.println("Application closing");

System.exit(0);

}

} catch (NumberFormatException e) {

System.err.println("Please Enter Numeric Characters Only");

} catch (IOException e) {

System.err.println(e.toString());

}

} while (mainMenuOption != 3);

}

}