**LockedMeMain.java**

package main;

import java.util.Scanner;

import service.FileProcessing;

import service.SearchingAlgorithm;

import service.SortingAlgorithm;

public class LockedMeMain {

public static void main(String[] args) {

// TODO Auto-generated method stub

FileProcessing file= new FileProcessing();

SearchingAlgorithm search =new SearchingAlgorithm();

SortingAlgorithm sort = new SortingAlgorithm();

System.out.println("Welcome to LockedMe.com , This application developed by ahmed elbaz");

System.out.println("-------------------------------------------------------------------");

System.out.println(" ");

String menuPointer = null;

do{

System.out.println(" Main Menu Options : ");

System.out.println(" ");

System.out.println("- Press 1 to retrieve all the folder items ");

System.out.println("- Press 2 for processing operations ");

System.out.println("- press (e) to exit the program ");

Scanner sc = new Scanner(System.in);

menuPointer = sc.next();

switch(menuPointer) {

case "1":

System.out.println("------------");

String [] files =sort.bubbleSortAsc(file.readAllFiles());

for (String s:files)

System.out.println(s);

break;

case "2":

int i=-1;

do{

System.out.println(" Processing Operations : ");

System.out.println(" ");

System.out.println("- Press 1 to add new file. ");

System.out.println("- Press 2 to delete any file. ");

System.out.println("- press 3 to search for any file. ");

System.out.println("- press 0 to return to main menu. ");

Scanner sc2 = new Scanner(System.in);

i = sc2.nextInt();

switch(i) {

case 1:

System.out.println("--------Enter the name of the file you want to create------");

Scanner sc3 = new Scanner(System.in);

String fileName = sc3.next();

file.createNewFile(fileName);

break;

case 2:

System.out.println("--------Enter the name of the file you want to delete------");

Scanner sc4 = new Scanner(System.in);

String fileName1 = sc4.next();

file.deleteFile(fileName1);

break;

case 3:

System.out.println("--------Enter the name of the file you want to search------");

Scanner sc5 = new Scanner(System.in);

String fileName2 = sc5.next();

search.binarySearch(file.readAllFiles(), fileName2);

break;

case 0:

System.out.println("Returning to Main men ");

break;

default:System.out.println("wrong choice please choose the correct option");

break;

}

}while(i!=0);

break;

case "e":

System.out.println("closing the application , see you again bye!!!!");

break;

default:System.out.println("wrong choice please choose the correct option");

break;

}

}while(!menuPointer.equals("e"));

}

}

**FileProcessing.java**

**package service;**

**import java.io.File;**

**import java.io.FileWriter;**

**import java.io.IOException;**

**public class FileProcessing {**

**private String folderName = "files";**

**public String[] readAllFiles() {**

**String[] ss = null;**

**try {**

**File ff = new File(folderName);**

**ss = ff.list();**

**if (ss.length == 0) {**

**System.out.println("Folder is empty, no files founded");**

**} else {**

**System.out.println("There are " + ss.length + " files founded");**

**}**

**} catch (Exception e) {**

**System.out.println("There's error while trying to fetch file, please try again later");**

**}**

**return ss;**

**}**

**public void createNewFile(String fileName) {**

**String filePath = folderName + "/" + fileName;**

**File ff = new File(filePath);**

**if (ff.exists()) {**

**System.out.println("File already exists");**

**} else {**

**// ff.createNewFile();**

**FileWriter fw;**

**try {**

**fw = new FileWriter(filePath);**

**fw.write("Welcome user your create file with name as " + fileName);**

**fw.flush();**

**} catch (IOException e) {**

**System.out.println("Error while creating this file in this path");**

**}**

**System.out.println("File created...");**

**}**

**}**

**public void deleteFile(String fileName) {**

**String filePath = folderName + "/" + fileName;**

**File ff = new File(filePath);**

**if (ff.exists()) {**

**ff.delete();**

**System.out.println("File deleted...");**

**} else {**

**System.out.println("File not found");**

**}**

**}**

**}**