**PROJECT CODE**

package projectpackage;

import java.util.Collections;

import java.util.LinkedList;

import java.util.Scanner;

public class FilesProject {

public static void main(String[] args) {

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

System.out.println("Welcome To The Apllication \nThis application is used to manage the files \n");

System.out.println(".....Developed by Seelam Sindhuja[EmpId:10840]\n\n");

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

list.add("File1");

list.add("File2");

mainmenu(list);

}

static void menu(LinkedList<String> list) {

try (Scanner s = new Scanner(System.in)) {

String input;

try {

System.out.println("Enter any one of the below option to continue");

System.out.println("1.Add a new file");

System.out.println("2.Delete a file");

System.out.println("3.Search a file");

System.out.println("4.Main menu");

input=s.next();

inputdis(input,list);

}

catch(Exception e) {

System.out.println("Enter valid input ");

}

System.out.println("");

input=s.next();

inputdis(input,list);

}

}

static void mainmenu(LinkedList<String> list) {

try (Scanner s = new Scanner(System.in)) {

System.out.println("1.Retreive files in ascending order");

System.out.println("2.File handling menu");

System.out.println("3.Exit application");

String input=s.next();

inpdis(input,list);

}

}

static void inpdis(String input,LinkedList<String> list) {

try (Scanner s = new Scanner(System.in)) {

switch(input) {

case "1":

display(list);

break;

case "2":

menu(list);

break;

case "3":

System.exit(0);

default :

System.out.println("Enter valid input");

String input1=s.next();

inputdis(input1,list);

break;

}

}

}

static void inputdis(String input,LinkedList<String> list) {

try (Scanner s = new Scanner(System.in)) {

switch(input) {

case "1":

add(list);

break;

case "2":

delete(list);

break;

case "3":

search(list);

break;

case "4":

mainmenu(list);

break;

default :

System.out.println("Enter valid input");

String input1=s.next();

inputdis(input1,list);

break;

}

}

}

static void display(LinkedList<String> list) {

try (Scanner s = new Scanner(System.in)) {

Collections.sort(list);

for(String file:list) {

System.out.println(file);}

System.out.println("Press 0 to exit to menu\n");

String option;

option=s.next();

while(true) {

if(option.equals("0")) {

mainmenu(list);

}

else {

//System.out.println(option);

System.out.println("Enter valid input");

option=s.next();

}}

}

}

static void add(LinkedList<String> list) {

try (Scanner s = new Scanner(System.in)) {

System.out.println("Adding a new file");

System.out.println("Enter name of the file");

String name;

while(true) {

name=s.next();

if(list.contains(name)) {

System.out.println("Speciefied name of file is already present \nEnter a different name");

}else {

if(list.add(name)) {

System.out.println("File added successfully....\n");

Collections.sort(list);

addmore(list);

}}}

}

}

static void addmore(LinkedList<String> list) {

String n;

try (Scanner s = new Scanner(System.in)) {

System.out.println("\nWant to add more files ?");

System.out.println("1.Add file");

System.out.println("2.Exit to File handling menu\n");

while(true) {

n=s.next();

if(n.equals("1")) {

add(list);

}

else if(n.equals("2")){

menu(list);

}

else {

System.out.println("Enter a valid input");

n=s.next();

}}

}

}

static void delete(LinkedList<String> list) {

try (Scanner s = new Scanner(System.in)) {

System.out.println("Deleting a file");

System.out.println("Enter name of the file");

String name;

while(true) {

name=s.next();

if(list.remove(name)) {

System.out.println("File deleted successfully...\n");

deletemore(list);

}

else {

System.out.println("Given file is not present");

System.out.println("Enter a existing file name to delete");

}}

}

}

static void deletemore(LinkedList<String> list) {

String n;

try (Scanner s = new Scanner(System.in)) {

System.out.println("\nWant to delete more files ?");

System.out.println("1.Delete file");

System.out.println("2.Exit to File handling menu\n");

while(true) {

n=s.next();

if(n.equals("1")) {

delete(list);

}

else if(n.equals("2")){

menu(list);

}

else {

System.out.println("Enter a valid input");

//n=s.next();

}}

}

}

static void search(LinkedList<String> list) {

try (Scanner s = new Scanner(System.in)) {

System.out.println("Searching a file");

System.out.println("Enter the name of the file");

String name;

while(true) {

name=s.next();

if(list.contains(name)) {

System.out.println("File is present\n");

//display(list);

searchmore(list);

}

else {

System.out.println("File not found\n");

searchmore(list);

}}

}

}

static void searchmore(LinkedList<String> list) {

try (Scanner s = new Scanner(System.in)) {

System.out.println("Want to search more files?");

System.out.println("1.Search file");

System.out.println("2.Exit to File handling menu \n");

String n;

while(true) {

n=s.next();

if(n.equals("1")) {

search(list);

}

else if(n.equals("2")) {

menu(list);

}

else {

System.out.println("Enter valid input");

//n=s.next();

} }

}

}

}