package com.lockedme;

import java.io.File;

import java.io.IOException;

import java.util.Scanner;

public class Menu {

boolean exitmainmenu, exitsubmenu;

public static void main(String[] args) {

Menu menu = new Menu();

menu.runmenu();

}

public void runmenu() {

prinheader();

exitmainmenu = false;

while(!exitmainmenu) {

printmenu();

int choice = getinput();

performaction(choice);

}

}

private void prinheader() { //method

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

System.out.println("+ Company Lockers Pvt.Ltd +");

System.out.println("+ LockedMe Application +");

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

}

private void printmenu() {

System.out.println("\n Make a selection");

System.out.println(" 1. Display Directory ");

System.out.println(" 2. Perform an operation ");

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

}

//get the choice user entered 1,2,3 etc

private int getinput() {

Scanner kb = new Scanner(System.in); //creating the object for scanner class

int choice = -1;

while(choice < 1 || choice > 4 ) {

try {

System.out.print("\n Enter your choice : ");

choice = Integer.parseInt(kb.nextLine());

}

catch(NumberFormatException e) {

System.out.println("Invalid selection, please try again");

}

}

return choice;

}

//perform action on menu#1

private void performaction(int choice) {

switch (choice) {

case 1:

displaydir();

runsubmenu();

break;

case 2:

runsubmenu();

break;

case 3:

exitmainmenu = true;

System.out.println("Thank you for using our application");

break;

default:

System.out.println("An unknown error has occured");

}

}

//Display files inside a the folder

private void displaydir() {

File f = new File ("C:\\Users\\Admin\\Desktop");

String list[] = f.list();

System.out.println("List of files in folder");

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

{

System.out.println(list[i]);

}

}

//When user selects option 2 on menu 1, Print submenu and get user choice

private void printsubmenu() { //method

System.out.println("\n Select operation on Directory");

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

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

System.out.println(" 3. Search for specific file by name ");

System.out.println(" 4. Return to home page ");

}

//Display sub-menu

public void runsubmenu() {

exitsubmenu = false;

while(!exitsubmenu) {

printsubmenu();

int choice = getinput();

performactionsm(choice);

}

}

//perform action on sub-menu

private void performactionsm(int choice) {

switch (choice) {

case 1:

exitsubmenu = true;

try {

filecreate();

} catch (IOException e) {

System.out.println("file creation error-1");

}

break;

case 2:

exitsubmenu = false;

deletefile();

break;

case 3:

exitsubmenu = false;

findfile();

break;

case 4:

exitsubmenu = true;

System.out.println("\n Returning to previous menu...");

break;

default:

System.out.println("An unknown error has occured");

}

}

//Add a file method

private void filecreate() throws IOException {

Scanner input = new Scanner(System.in);

System.out.print("Enter the desired name of your file: ");

String fileName = input.nextLine();

fileName = fileName + ".txt";

File dir = new File ("C:\\Users\\Admin\\Desktop");

File newfile = new File (dir, fileName);

if(newfile.createNewFile()) {

System.out.println("\n file created successfully");

}else {

System.out.println("file creation error-2");

}

}

//Delete a file method

private void deletefile() {

Scanner input = new Scanner(System.in);

System.out.print("Enter the file name to delete: ");

String fileName = input.nextLine();

fileName = fileName + ".txt";

File dir = new File ("C:\\Users\\Admin\\Desktop");

File myfile = new File (dir, fileName);

if(myfile.delete()) {

System.out.println("file deleted successfully : "+myfile.getName());

}else {

System.out.println("file delete error");

}

}

//Search a file method

private void findfile() {

// Create an object of the File class

// Replace the file path with path of the directory

File directory = new File("C:\\Users\\Admin\\Desktop");

// store all names with same name

// with/without extension

String[] flist = directory.list();

int flag = 0;

if (flist == null) {

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

}

else {

Scanner input = new Scanner(System.in);

System.out.print("\n Enter the file name to be searched: ");

String searchFile = input.nextLine();

searchFile = searchFile + ".txt";

// Linear search in the array

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

String filename = flist[i];

if (filename.equals(searchFile)) {

System.out.println(searchFile + " found");

flag = 1;

}

}

}

if (flag == 0) {

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

}

}

}