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package Virtual_key_repo;

import java.io.File;
import java.io.IOException;
import java.util.Arrays;
import java.util.Scanner;

public class Locked {
    static String DIRECTORY;
    File folder_name;

    public Locked() {
        DIRECTORY = System.getProperty("user.dir");
        folder_name = new File(DIRECTORY+"/files");
        if (!folder_name.exists())
            folder_name.mkdirs();
        System.out.println("DIRECTORY : "+ folder_name.getAbsolutePath());
    }

    private static final String WELCOME_PROMPT =
        "\n JavaProject.com"+
        "\n Kamran Khan \n";

    private static final String MAIN_MENU_PROMPT =
        "\nMAIN MENU - Select any of the following: \n"+
        "1 -> List files in directory\n"+
        "2 -> Add, Delete or Search\n"+
        "3 -> Exit Program";
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private static final String SECONDARY_MENU_PROMPT =
"  \nSelect any of the following: \n"+
"  a -> Add a file\n"+
"  b -> Delete a file\n"+
"  c -> Search a file\n"+
"  d ->GoBack";

void showPrimaryMenu() {
System.out.println(MAIN_MENU_PROMPT);
try{
    Scanner scanner = new Scanner(System.in);
    int option = scanner.nextInt();
    switch (option){
    case 1 : {
showFiles();
showPrimaryMenu();
        }

    case 2 : {
showSecondaryMenu();
        }

    case 3 : {
System.out.println("Thank You");
System.exit(0);
        }

    default: showPrimaryMenu();
        }
    }

catch (Exception e){
System.out.println("Please enter 1, 2 or 3");
showPrimaryMenu();
    }
}

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void showSecondaryMenu() {
System.out.println(SECONDARY_MENU_PROMPT);
try{
    Scanner scanner = new Scanner(System.in);
    char[] input = scanner.nextLine().toLowerCase().trim().toCharArray();
    char option = input[0];

    switch (option){
    case'a' : {
System.out.print("\ Adding a file...Please Enter a File Name : ");
        String filename = scanner.next().trim().toLowerCase();
        addFile(filename);
        break;
        }

    case'b' : {
System.out.print("\ Deleting a file...Please Enter a File Name : ");
        String filename = scanner.next().trim();
        deleteFile(filename);
        break;
        }

    case'c' : {
System.out.print("\ Searching a file...Please Enter a File Name : ");
        String filename = scanner.next().trim();
        searchFile(filename);
        break;
        }

    case'd' : {
System.out.println("Going Back to MAIN menu");
        showPrimaryMenu();
        break;
        }

    default :System.out.println("Please enter a, b, c or d");
        }
}

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showSecondaryMenu();
    }
    catch (Exception e){
        System.out.println("Please enter a, b, c or d");
        showSecondaryMenu();
    }
}

void showFiles() {
    if (folder_name.list().length==0)
        System.out.println("The folder is empty");
    else {
        String[] list = folder_name.list();
        System.out.println("The files in "+ folder_name + " are :");
        Arrays.sort(list);
        for (String str:list) {
            System.out.println(str);
        }
    }
}

void addFile(String filename) throws IOException {
    File filepath = new File(folder_name + "/" + filename);
    String[] list = folder_name.list();
    for (String file: list) {
        if (filename.equalsIgnoreCase(file)) {
            System.out.println("File " + filename + " already exists at " + folder_name);
            return;
        }
    }
    filepath.createNewFile();
    System.out.println("File " + filename + " added to " + folder_name);
}

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    }
    filepath.createNewFile();
    System.out.println("File "+filename+" added to "+ folder_name);
    }

    void deleteFile(String filename) {
        File filepath = new File(folder_name + "/" + filename);
        String[] list = folder_name.list();
        for (String file: list) {
            if (filename.equals(file) && filepath.delete()) {
                System.out.println("File " + filename + " deleted from " + folder_name);
                return;
            }
        }
        System.out.println("Delete Operation failed. FILE NOT FOUND");
    }

    void searchFile(String filename) {
        String[] list = folder_name.list();
        for (String file: list) {
            if (filename.equals(file)) {
                System.out.println("FOUND : File " + filename + " exists at " + folder_name);
                return;
            }
        }
        System.out.println("File NOT found (FNF)");
    }

    public static void main(String[] args) {
        System.out.println(WELCOME_PROMPT);
        Locked menu = new Locked();
        menu.showPrimaryMenu();
    }
}

```

JavaProject.com
Kamran Khan

DIRECTORY : D:\Javasimplilearn\Phasel\files

MAIN MENU - Select any of the following:

- 1 -> List files in directory
- 2 -> Add, Delete or Search
- 3 -> Exit Program

1

The folder is empty

MAIN MENU - Select any of the following:

- 1 -> List files in directory
- 2 -> Add, Delete or Search
- 3 -> Exit Program

2

Select any of the following:

- a -> Add a file
- b -> Delete a file
- c -> Search a file
- d ->GoBack

a

↳ Adding a file...Please Enter a File Name : **khan**

File khan added to D:\Javasimplilearn\Phasel\files

Select any of the following:

- a -> Add a file
- b -> Delete a file
- c -> Search a file
- d ->GoBack

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