

## SOURCE CODE

```
package com.varshitha.project;
import java.io.File;
import java.io.IOException;
import java.util.Arrays;
import java.util.Scanner;
public class LockedMe {
    static String DIRECTORY;
    File folder_name;

    public LockedMe() {
        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***** LockedMe.com *****"+
        "\n*****VarshithaREDDY*****\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";

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

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

void showFiles() {

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        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);
    }

    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("File NOT found (FNF)");
    }

    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) {
        // TODO Auto-generated method stub
        System.out.println(WELCOME_PROMPT);
        LockedMe menu = new LockedMe();
        menu.showPrimaryMenu();
    }

```

} }