code:

```java
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"+
```

```java
            "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);
                }
                default: showPrimaryMenu();
            }
        }
```

```java
        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 : ");
```

```java
                    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() {

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);

            }
```

```java
        }

    }


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("Delete Operation failed. FILE NOT FOUND");

    }


void searchFile(String filename) {
```

```java
        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();

            }

        }
```

output:

  JavaProject.com

 Kamran Khan

DIRECTORY : D:\Javasimplilearn\Phase1\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\Phase1\files

Select any of the following:

   a -> Add a file

   b -> Delete a file

   c -> Search a file

   d ->GoBack