

SIMPLILEARN PROJECT

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BATCH	MS FSD DEC 2021 Cohort 1
PROJECT TITLE	LOCKEDME.COM
PROJECT SUBMISSION DATE	28-01-2022

SOURCE CODE

```
package companyLocker;
import java.io.*;
import java.util.*;

public class Locker {
    public static final Scanner sc= new Scanner(System.in);
    static final String fpath="D:\\simplilearn
assignments\\LockedMe";
    static final String errmsg="\nLooks like your input was
invalid."
        + " Please Try Again\nIf the error
persist.Please contact the Admin at admin@Lockedme.com\n";

    /**
     * This is menu method displays the menu including the
company name and developer details
     */
    public static void menu() {

        System.out.println("\nWelcome,Choose your option ");
        System.out.println("1) Show all the files in the
directory");
        System.out.println("2) Add, Delete or Search for file
in the directory");
        System.out.println("3) Exit from the application\n");
    }

    /**
     * this method is used to display all the files in the
assigned directory
     */
    public static void getAllFiles() {
        File fobj = new File(fpath);
        String[] listOfFiles=fobj.list();
        for(var s:listOfFiles) {
            System.out.println(s);
        }
    }

    /**
     * this method is used to add a new file to the directory
along with lines inside the file
    */
}
```

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```

    */
    public static void addfile() {

        System.out.println("Enter your filename");
        String fn= sc.nextLine();
        System.out.println("Enter the number of lines you would
like to insert to your file");
        int sno= Integer.parseInt(sc.nextLine());
        try {
            FileWriter mywriter= new
FileWriter(fpath+"\\ "+fn);
            for(int i=1;i<=sno;i++) {
                System.out.println("Enter line "+i);
                mywriter.write(sc.nextLine()+"\n");

            }
            System.out.println("\nFile added");
            mywriter.close();

        } catch (IOException e) {
            System.out.println(errmsg);

        }

    }

    /**
     * this method is used to delete file , it checks if the file
    exist and then deletes if if present
     * if the file is not present displays "file not found"
    */
    public static void delFile() {

        try {
            System.out.println("Enter the file name to be
deleted");
            String fname=sc.nextLine();
            File fdname=new File("D:\\simplilearn
assignments\\LockedMe"+"\\ "+ fname);
            if(fdname.exists()) {
                fdname.delete();
                System.out.println("\nFile deleted
successfully");
            }
            else {

```

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```

        System.out.println("\nFile to be deleted is
missing");
    }
}
catch (Exception ex) {
    System.out.println(errmsg);
}
}

/**
 * this method performs search operation of the required file
 * the method prints "not found" id the file is not found
 */
public static void searchFile() {
    boolean flag=false;

    File directory = new File(fpath);
    String[] fi =directory.list();
    System.out.println("Enter the file name to be
searched");
    String fname=sc.nextLine();
    if(fi==null)
        System.out.println("\nDirectory is empty");
    else {
        for(var s:fi) {
            String fdummy=s;
            if(fdummy.equalsIgnoreCase(fname)) {
                System.out.println("\nFile found");
                flag=true;
            }
        }
    }

    if(flag==false)
        System.out.println("\nFile not found");

}

/**
 * this is the choice method with switch statement to direct
the control to specific methods.
 */
public static void choice() {
    do{

        menu();
        int ch=sc.nextInt();
        sc.nextLine();
    }
}

```

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```

        switch(ch) {
        case 1 :System.out.println("\nFiles in the
directory:\n");

                getAllFiles();
                break;

        case 2:int chi=0;
                do{
                        try {
                                do {

                                System.out.println("would you like to:\n1) Add a file\n2)
Delete a file\n"
                                +
                                "3) Search for a file\n4) Go back to the Main Menu");

                                int
cho=sc.nextInt();

                                sc.nextLine();

                                if(cho==1) {

                                        addfile();

                                        continue;

                                }

                                else if(cho==2) {

                                        delFile();

                                        continue;

                                }

                                else if(cho==3) {

                                        searchFile();

                                        continue;

                                }

                                else if(cho==4) {

                                        chi=1;

                                        break;

                                }

```

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```

        else {

            System.out.println("invalid option");

        }

        sc.nextLine();
        while(true);

    }
    catch(InputMismatchException
Ex ){

        System.out.println(errmsg);

        sc.nextLine();

        while(chi==0);

        break;

        case 3: System.out.println("you have exited
the application");

            System.exit(ch);

            default : System.out.println("invalid
selection");

            break;

        }

    }while(true);

}
/**
 * Main method with try catch statements
 *
 */
public static void main String[] args) {

    System.out.println("\n"+"*****
*****");
    System.out.println("\t\t\t\t\tLockedMe.com");

    System.out.println("*****
*****");
    System.out.println("Developer details\n\n"

```

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```
                + "Name: Suraj R Shiriya\nEmail:
surajrs504@gmail.com\n");
        try {
            do{

                try{
                    choice();
                }
                catch(Exception ex){
                    System.out.println(errmsg);
                    sc.nextLine();
                }

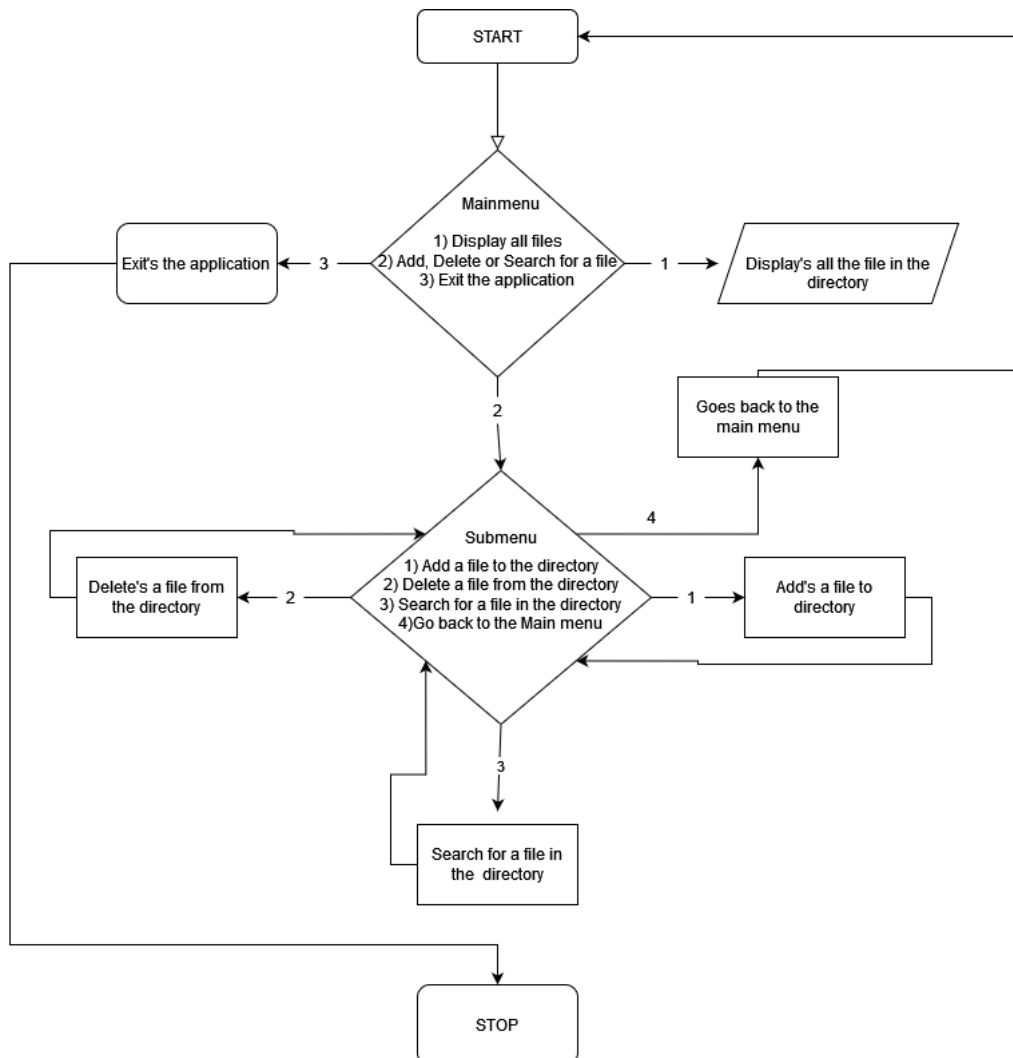
            }while(true);

        }

        finally {
            sc.close();
        }

    }

}
```

SOURCE CODE:**FLOWCHART**

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SCREEN SHOTS:

1) Show all the files in the directory

```
*****
                               LockedMe.com
*****
Developer details

Name: Suraj R Shiriya
Email: surajrs504@gmail.com

Welcome, Choose your option
1) Show all the files in the directory
2) Add, Delete or Search for file in the directory
3) Exit from the application

1
Files in the directory:

file_1.txt
file_2.txt
file_3.txt
file_4.txt
```

2) Add a file to the directory

```
Welcome, Choose your option
1) Show all the files in the directory
2) Add, Delete or Search for file in the directory
3) Exit from the application

2
would you like to:
1) Add a file
2) Delete a file
3) Search for a file
4) Go back to the Main Menu
1
Enter your filename
file_4.txt
Enter the number of lines you would like to insert to your file
1
Enter line 1
hi
File added
would you like to:
1) Add a file
2) Delete a file
3) Search for a file
4) Go back to the Main Menu
```

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3) Delete a file from the directory

```
File added
would you like to:
1) Add a file
2) Delete a file
3) Search for a file
4) Go back to the Main Menu
2
Enter the file name to be deleted
file_1.txt

File deleted successfully
would you like to:
1) Add a file
2) Delete a file
3) Search for a file
4) Go back to the Main Menu
```

4) Search for a file in the directory

```
would you like to:
1) Add a file
2) Delete a file
3) Search for a file
4) Go back to the Main Menu
3
Enter the file name to be searched
file_2.txt

File found
would you like to:
1) Add a file
2) Delete a file
3) Search for a file
4) Go back to the Main Menu
```

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5) Files in the directory after above operations

```
would you like to:
1) Add a file
2) Delete a file
3) Search for a file
4) Go back to the Main Menu
4

Welcome,Choose your option
1) Show all the files in the directory
2) Add, Delete or Search for file in the directory
3) Exit from the application

1
|
Files in the directory:

file_2.txt
file_3.txt
file_4.txt
```

6) Exit the application

```
Welcome,Choose your option
1) Show all the files in the directory
2) Add, Delete or Search for file in the directory
3) Exit from the application

3
|
you have exited the application
```