Code for LockedMe.com

Main.java

```
public class Main {

	/*Enter your desired Directory path */
	public static final String path = "D:\\projects\\files";

	public static void main(String[] args) {
		Menus menu = new Menus();
		menu.mainMenu();
	}

}
```

Operation.java

```
import java.io.File;

import java.io.IOException;

import java.util.Arrays;

import java.util.Set;

import java.util.TreeSet;

import java.util.regex.Matcher;

import java.util.regex.Pattern;


public class Operation {


	public void listAllFiles(String path) {


		if (path == null || path.isEmpty() || path.isBlank())

			throw new NullPointerException("Path cannot be Empty or null");
```

```
File dir = new File(path);

if(!dir.exists())
        throw new IllegalArgumentException("Path does not exist");

if(dir.isFile())
        throw new IllegalArgumentException("The given path is a file. A directory is
expected.");

String [] files = dir.list();

System.out.println("\n**********************************");
if(files != null && files.length > 0) {

        Set<String>filesList = new TreeSet<String>(Arrays.asList(files));
        System.out.println("The Files in "+ dir.getAbsolutePath() + " are: \n");
        for(String file1:filesList) {

                System.out.println(file1);

        }

        System.out.println("\nTotal Number of files: "+ filesList.size());
}else {

        System.out.println("Directory is Empty");
```

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```
        }

}

public void createNewFile(String path , String fileName) throws IOException {

        if (path == null || path.isEmpty() || path.isBlank())
                throw new NullPointerException("Path cannot be Empty or null");


        if (fileName == null || fileName.isEmpty() || fileName.isBlank())
                throw new NullPointerException("File Name cannot be Empty or null");

        File newFile = new File(path + File.separator + fileName);

        boolean createFile = newFile.createNewFile();

        if (createFile) {

                System.out.println("\nFile Successfully Created: " + newFile.getAbsolutePath());

        }else if(!createFile) {

                System.out.println("\nFile Already Exist.. Please try again." );
```

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```
		}

	}

public void deleteFile(String path , String fileName) throws IOException {

		if (path == null || path.isEmpty() || path.isBlank())
			throw new NullPointerException("Path cannot be Empty or null");


		if (fileName == null || fileName.isEmpty() || fileName.isBlank())
			throw new NullPointerException("File Name cannot be Empty or null");

		File newFile = new File(path + File.separator + fileName);

		boolean deleteFile = newFile.delete();

		if (deleteFile) {

			System.out.println("\nFile deleted Successfully");

		}else {
```

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```
                System.out.println("\nFile Not Found.. Please try again." );

            }

        }



public void searchFile(String path , String fileName){

            if (path == null || path.isEmpty() || path.isBlank())
                throw new NullPointerException("Path cannot be Empty or null");



            if (fileName == null || fileName.isEmpty() || fileName.isBlank())
                throw new NullPointerException("File Name cannot be Empty or null");

            File dir = new File(path);

            if(!dir.exists())
                throw new IllegalArgumentException("Path does not exist");

            if(dir.isFile())
                throw new IllegalArgumentException("The given path is a file. A directory is
expected.");
```

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```
		String [] fileList = dir.list();
		boolean flag = false;

		Pattern pat = Pattern.compile(fileName);

		if(fileList != null && fileList.length > 0) {
			for(String file:fileList) {
				Matcher mat = pat.matcher(file);
				if(mat.matches()) {
					System.out.println("File Found at location: " +
dir.getAbsolutePath());
					flag = true;
					break;
				}
			}
		}

		if(flag == false)
			System.out.println("File Not Found.. Please try again.");


	}

}
```

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Menus.java

```
import java.io.IOException;
import java.util.Scanner;

public class Menus {

	Scanner scan = new Scanner(System.in);
	Operation dao = new Operation();

	public void exitScreen() {

		System.out.println("-------------------------------------------------");
		System.out.println("    THANK YOU FOR VISITING LockedMe.com       *");
		System.out.println("-------------------------------------------------");
		System.out.println("\n\n");



	}

	public void mainMenuOptions() {
		System.out.println("==================================");
		System.out.println("            MAIN MENU           ");
```

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```
            System.out.println("==================================");
            System.out.println(" Select any one of the following:  ");
    System.out.println("   1 - List All Files            ");
    System.out.println("   2 - More Options              ");
    System.out.println("   3 - Exit                      ");
    System.out.println("==================================");
    System.out.println("Enter your choice : ");
}

public void subMenuOptions() {

            System.out.println("==================================");
            System.out.println("          SUB MENU              ");
            System.out.println("==================================");
            System.out.println(" Select any one of the following:  ");
    System.out.println("   1 - Add a file                ");
    System.out.println("   2 - Delete a file             ");
    System.out.println("   3 - Search a file             ");
    System.out.println("   4 - Go Back                   ");
    System.out.println("==================================");
    System.out.println("Enter your choice : ");

}

public void mainMenu() {
```

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```
int choice = 0;
char decision = 0;
do {

        mainMenuOptions();

        try {
                choice = Integer.parseInt(scan.nextLine());
        } catch (NumberFormatException e) {
                System.out.println("\nInvalid Input \nValid Input Integers:(1-3)\n");
                mainMenu();
        }

        switch (choice) {

        case 1:
                        System.out.println();
                        try {
                                dao.listAllFiles(Main.path);
                        }catch(NullPointerException e) {
                                System.out.println(e.getMessage());
                        }catch(IllegalArgumentException e) {
                                System.out.println(e.getMessage());
```

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```
                    }catch(Exception e) {
                        System.out.println(e.getMessage());
                    }

System.out.println("\n**********************************\n");
                    break;

                case 2:
                    System.out.println();
                    subMenu();
                    break;

                case 3:
                    System.out.println("\n Are you sure you want to exit ? ");
                    System.out.println("  (Y) ==> Yes    (N) ==> No       ");
                    decision =  scan.nextLine().toUpperCase().charAt(0);
                    if(decision == 'Y') {
                        System.out.println("\n");
                        exitScreen();
                        System.exit(1);
                    }else if(decision == 'N') {
                        System.out.println("\n");
                        mainMenu();
                    }else {
                        System.out.println("\nInvalid Input \nValid Inputs
:(Y/N)\n");
```

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```
                                        mainMenu();
                                    }


                        default:
                                    System.out.println("\nInvalid Input \nValid Input Integers:(1-
3)\n");
                                    mainMenu();

                        }


                }while(true);

        }


        public void subMenu() {
                String file = null;
                String fileName = null;
                int choice = 0;

                do {

                        subMenuOptions();
```

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```
try {
        choice = Integer.parseInt(scan.nextLine());
} catch (NumberFormatException e) {
        System.out.println("Invalid Input \nValid Input Integers:(1-4)");
        subMenu();
}



switch (choice) {
case 1:
                System.out.println("\n==> Adding a File...");
                System.out.println("Please enter a file name : ");
                file = scan.nextLine();
                fileName = file.trim();
                try {
                        dao.createNewFile(Main.path, fileName);
                }catch(NullPointerException e) {
                        System.out.println(e.getMessage());
                }catch(IOException e) {
                        System.out.println("Error occurred while adding file..");
                        System.out.println("Please try again...");
                }catch(Exception e) {
                        System.out.println("Error occurred while adding file..");
                        System.out.println("Please try again...");
                }
```

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```
System.out.println("\n**********************************\n");
                                        break;

                                case 2:
                                        System.out.println("\n==> Deleting a File...");
                                        System.out.println("Please enter a file name to Delete : ");
                                        file = scan.nextLine();
                                        fileName = file.trim();
                                        try {
                                                dao.deleteFile(Main.path, fileName);
                                        }catch(NullPointerException e) {
                                                System.out.println(e.getMessage());
                                        }catch(IOException e) {
                                                System.out.println("Error occurred while Deleting
File..");
                                                System.out.println("Please try again...");
                                        }catch(Exception e) {
                                                System.out.println("Error occurred while Deleting
File..");
                                                System.out.println("Please try again...");
                                        }

System.out.println("\n**********************************\n");
                                        break;

                                case 3:
```

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```
                        System.out.println("\n==> Searching a File...");
                        System.out.println("Please enter a file name to Search : ");
                        file = scan.nextLine();
                        fileName = file.trim();
                        try {
                                dao.searchFile(Main.path, fileName);
                        }catch(NullPointerException e) {
                                System.out.println(e.getMessage());
                        }catch(IllegalArgumentException e) {
                                System.out.println(e.getMessage());
                        }catch(Exception e) {
                                System.out.println(e.getMessage());
                        }

System.out.println("\n***********************************\n");
                        break;
                case 4: mainMenu();
                        break;

                default:
                        System.out.println("Invalid Input \nValid Input Integers:(1-4)");
                        subMenu();

                }

        file = null;
```

```
                fileName = null;


                }while(true);


        }


}
```