Project.java

```java
1
2  import java.io.*;
3  import java.io.FileNotFoundException;
4  import java.util.Scanner;
5
6
7  import java.io.File;
8
9  import java.io.IOException;
10 import java.util.*;
11
12
13 interface FileInterface {
14     public abstract void showAllFiles();
15     public abstract void addFile();
16     public abstract void deleteFile();
17     public abstract void searchFile();
18
19 }
20
21
22 public class Project {
23
24     public static void main(String[] args) {
25         // TODO Auto-generated method stub
26
27         welcomeScreen();
28         try {
29             menuDriven();
30         } catch (FileNotFoundException e) {
31             // TODO Auto-generated catch block
```

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```java
42     public static void menuDriven() throws FileNotFoundException {
43         Scanner sc = new Scanner(System.in);
44         BusinessLevelOperations obj = new BusinessLevelOperations();
45         int option;
46         do {
47             System.out.println("Enter your choice which you want to select: \n");
48             System.out.println("\t1. Retrieve current Filenames in Ascending Order \n");
49             System.out.println("\t2. Business-level Operation menu \n");
50             System.out.println("\t3. Exit from the Application \n");
51
52             option=sc.nextInt();
53             switch(option) {
54             case 1:
55                 obj.showAllFiles();
56                 break;
57             case 2:
58                 int ch;
59                 do {
60                     System.out.println("Enter your choice for Business level operation");
61                     System.out.println("\t1. Add a file and its content to a directory");
62                     System.out.println("\t2. Delete a file from a directory");
63                     System.out.println("\t3. Searching a file and showing its content");
64                     System.out.println("\t4. Exit from BLO menu");
65
66                     ch=sc.nextInt();
67                     switch(ch) {
68                     case 1:
69                         obj.addFile();
70                         break;
71                     case 2:
72                         obj.deleteFile();
```

```java
                    obj.deleteFile();
                    break;
                case 3:

                    obj.searchFile();
                    break;
                case 4:
                    System.out.println("Exited from the Business Level operation...");
                    System.out.println("--------------------------------\n");
                    break;
                default:
                    System.out.println("Invalid Choice");
                    break;
                }
            }while(ch!=4);
            break;
            case 3:
                System.out.println("Exiting from the application...");
                break;
            default:
                System.out.println("Invalid choice");
            }

            //System.out.println("Press 0 to continue");
            }while(option!=3);

        }

    }
```

```java
class BusinessLevelOperations implements FileInterface{




    public void showAllFiles() {
        // creates a file object
        System.out.println("List of Files ");
        try {
        File file = new File("D:\\test");

        // returns an array of all files
        String[] fileList = file.list();

        for(String str : fileList) {
          System.out.println(str);
          }
        }
          catch(Exception e) {
            e.printStackTrace();
          }

    }


@Override
    public void addFile() {
        // TODO Auto-generated method stub
        Scanner sc=new Scanner(System.in);          //object of Scanner class
        System.out.print("Enter the file name: ");
```

```java
135    public void addFile() {
136        // TODO Auto-generated method stub
137        Scanner sc=new Scanner(System.in);          //object of Scanner class
138        System.out.print("Enter the file name: ");
139        String name=sc.nextLine();
140        File file = new File("D:\\test\\"+name);  //initialize File object and passing path as argument
141    boolean result;
142    try
143    {
144    result = file.createNewFile();  //creates a new file
145    if(result)        // test if successfully created a new file
146    {
147    System.out.println("file created "+file.getCanonicalPath()); //returns the path string
148    }
149    else
150
151    {
152    System.out.println("File already exist at location: "+file.getCanonicalPath());
153    }
154    }
155    catch (IOException e)
156    {
157    e.printStackTrace();     //prints exception if any
158    }
159
160    System.out.println("Enter data for file");
161    try {
162
163
164    PrintWriter out = new PrintWriter(file);
165
```

```java
165
166        // Echo keyboard input out to the file.
167
168        while (sc.hasNextLine())
169        {
170          String line = sc.nextLine();
171          out.println(line);
172        }
173
174        System.out.println("Done");
175        out.close();
176        }
177
178        catch(Exception e) {}
179    }
180
181
182⊖    @Override
183    public void deleteFile() {
184        // TODO Auto-generated method stub
185        System.out.println("Enter the file which you want to delete:");
186        //sc.next();
187        Scanner scan=new Scanner(System.in);
188        String filename=scan.nextLine();
189        File F= new File("D:\\test\\"+filename);
190        if(F.delete())
191            System.out.println(filename+" got Deleted");
192        else
193            System.out.println("File Not Found");
194
195    }
```

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```java
198
199    @Override
200    public void searchFile() {
201        Scanner scan = new Scanner(System.in);
202        System.out.println("Enter the file to be searched with extension.. " );
203        String name = scan.next();
204
205        File directory = new File("D:\\test\\");
206
207
208        String[] flist = directory.list();
209        int flag = 0;
210        if (flist == null) {
211            System.out.println("Empty directory.");
212        }
213        else {
214
215            // Linear search in the array
216            for (int i = 0; i < flist.length; i++) {
217                String filename = flist[i];
218
219                if (filename.equalsIgnoreCase(name)) {
220                    System.out.println(filename + " found");
221                    flag = 1;
222                //reading contents of file
223                    System.out.println("contents of file: \n");
224                    try {
225                    File f= new File("D:\\test\\"+filename);
226                    Scanner sc1 = new Scanner(f);
227
228                    while(sc1.hasNextLine()) {
```

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```java
213        else {
214
215            // Linear search in the array
216            for (int i = 0; i < flist.length; i++) {
217                String filename = flist[i];
218
219                if (filename.equalsIgnoreCase(name)) {
220                    System.out.println(filename + " found");
221                    flag = 1;
222                //reading contents of file
223                    System.out.println("contents of file: \n");
224                    try {
225                    File f= new File("D:\\test\\"+filename);
226                    Scanner sc1 = new Scanner(f);
227
228                    while(sc1.hasNextLine()) {
229                    System.out.println(sc1.nextLine());
230
231                    }
232
233                } catch(Exception e) {
234                }
235            }
236            }//for new close
237        if (flag == 0) {
238            System.out.println("File Not Found");
239        }
240
241        //}//for
242        }
243
```