

Virtual Key for Your Repositories

APPROACH :- To build this project , i have created three different classes

- retrieve_files.java (For maintain the files)
- file_ops.java (For file operation)
- MAIN.java (For coordination between files)

Here “MAIN.java” is the main file . To run the project you must run this file . And to manage all the records of file i have create a folder name as “files” Inside this I have created a file name as “allfiles.txt” which contains the list of all names of files which have been created .

Following are the code Architecture ⇒

❖ Main.java

➤ Retrieve_files.java

■ RemoveFileFromAllFiles (String filename)

- If a file is deleted it is mandatory to remove the file name from “allfiles.txt” . This method helps me do this task.

■ updateAllFiles(String file)

- If a file is created it is mandatory to add the filename in “allfiles.txt” . This method helps me do this task.

■ search(String file)

- This method searches a file whether it is present or not in “allfiles.txt” . This method returns a boolean value.

■ main()

- This is the main method which interacts with users and operates the above methods.

➤ Files_ops.java

■ createFile()

- This method creates a file and asks whether a user wants to write in the file or not.

- ReadFile(String filename)
 - This method reads a file.
- WriteFile(String filename)
 - This method writes into a file . It is operated by the createFile() method.
- appendFile(String filename)
 - This method appends into a file.
- DeleteFile(String filename)
 - This method deletes files from the repository.
- main()
 - This is the main method which interacts with users and operates the above methods.

Methods used for sorting and searching ⇒

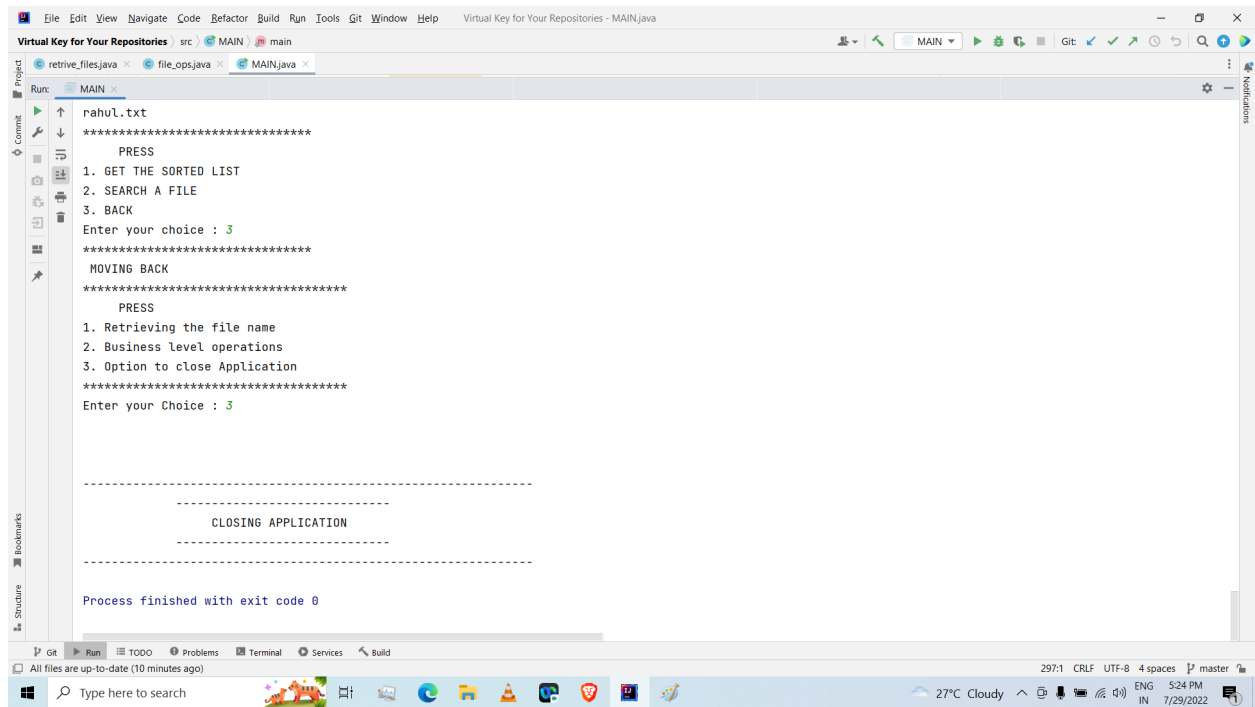
→ For sorting I have used **merge sort** with the help of the collection module.

→ For searching I have used **linear search** .

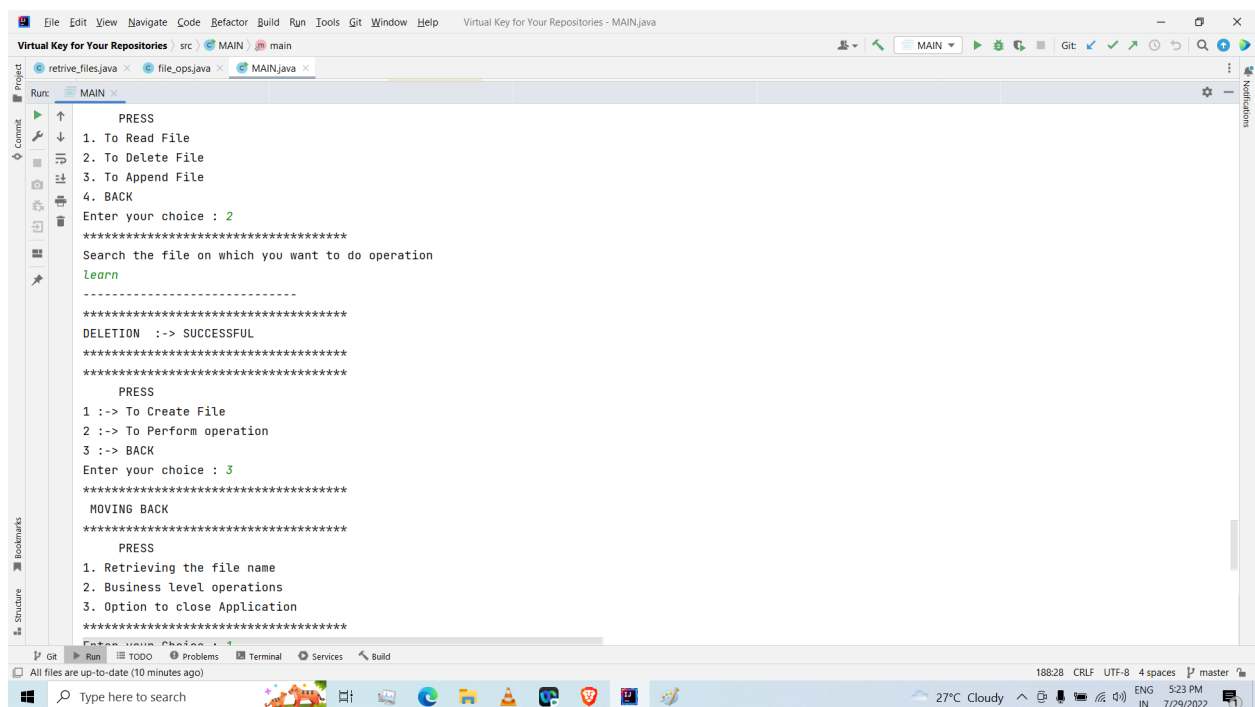
User interface flowchart ⇒

- I. Retrieving the file name
 - A. GET THE SORTED LIST
 - B. SEARCH A FILE
 - C. BACK
- II. Business level operations
 - A. To Create File
 - B. To Perform operation
 1. To Read File
 2. To Delete File
 3. To Append File
 4. BACK
 - C. BACK
- III. Option to close Application

RESULTS ⇒



```
Virtual Key for Your Repositories - MAIN.java
src \ MAIN \ main
retrive_files.java file_ops.java MAIN.java
Run: MAIN
rahu1.txt
*****
PRESS
1. GET THE SORTED LIST
2. SEARCH A FILE
3. BACK
Enter your choice : 3
*****
MOVING BACK
*****
PRESS
1. Retrieving the file name
2. Business level operations
3. Option to close Application
*****
Enter your Choice : 3
-----
CLOSING APPLICATION
-----
Process finished with exit code 0
```



```
Virtual Key for Your Repositories - MAIN.java
src \ MAIN \ main
retrive_files.java file_ops.java MAIN.java
Run: MAIN
PRESS
1. To Read File
2. To Delete File
3. To Append File
4. BACK
Enter your choice : 2
*****
Search the file on which you want to do operation
learn
-----
*****
DELETION :-> SUCCESSFUL
*****
PRESS
1 :-> To Create File
2 :-> To Perform operation
3 :-> BACK
Enter your choice : 3
*****
MOVING BACK
*****
PRESS
1. Retrieving the file name
2. Business level operations
3. Option to close Application
*****
Process finished with exit code 0
```

```
File Edit View Navigate Code Refactor Build Run Tools Git Window Help Virtual Key for Your Repositories - MAIN.java
Virtual Key for Your Repositories | src | MAIN | main
retrive_files.java | file_ops.java | MAIN.java
Run: MAIN
*****
SORTED LIST
-----
allfiles.txt
hello.txt
learn.txt
ll.txt
rahuL.txt
*****
PRESS
1. GET THE SORTED LIST
2. SEARCH A FILE
3. BACK
Enter your choice : 3
*****
MOVING BACK
*****
PRESS
1. Retrieving the file name
2. Business level operations
3. Option to close Application
*****
Enter your Choice : 2
*****
PRESS
1 :-> To Create File
2 :-> To Perform operation
3 :-> BACK
*****
All files are up-to-date (10 minutes ago)
188:28 CRLF UTF-8 4 spaces master
Type here to search Humid 5:23 PM 7/29/2022
```

```
File Edit View Navigate Code Refactor Build Run Tools Git Window Help Virtual Key for Your Repositories - MAIN.java
Virtual Key for Your Repositories | src | MAIN | main
retrive_files.java | file_ops.java | MAIN.java
Run: MAIN
i m deleting this file
-----
*****
WRITING :-> SUCCESSFUL
*****
PRESS
1 :-> To Create File
2 :-> To Perform operation
3 :-> BACK
Enter your choice : 3
*****
MOVING BACK
*****
PRESS
1. Retrieving the file name
2. Business level operations
3. Option to close Application
*****
Enter your Choice : 1
*****
PRESS
1. GET THE SORTED LIST
2. SEARCH A FILE
3. BACK
Enter your choice : 1
*****
All files are up-to-date (9 minutes ago)
188:28 CRLF UTF-8 4 spaces master
Type here to search 27°C Cloudy 5:22 PM 7/29/2022
```

```
File Edit View Navigate Code Refactor Build Run Tools Git Window Help Virtual Key for Your Repositories - MAIN.java
Virtual Key for Your Repositories src MAIN main
retrive_files.java file_ops.java MAIN.java
Run: MAIN
*****
PRESS
1. Retrieving the file name
2. Business level operations
3. Option to close Application
*****
Enter your Choice : 2
*****
PRESS
1 :-> To Create File
2 :-> To Perform operation
3 :-> BACK
Enter your choice : 2
*****
PRESS
1. To Read File
2. To Delete File
3. To Append File
4. BACK
Enter your choice : 3
*****
Search the file on which you want to do operation
learn
----- Enter what you want to append -----
i m deleting this file
Git Run TODO Problems Terminal Services Build
All files are up-to-date (8 minutes ago)
297:1 CRLF UTF-8 4 spaces master
Type here to search 31°C Mostly cloudy 5:21 PM 7/29/2022
```

```
File Edit View Navigate Code Refactor Build Run Tools Git Window Help Virtual Key for Your Repositories - MAIN.java
Virtual Key for Your Repositories src MAIN main
retrive_files.java file_ops.java MAIN.java
Run: MAIN
this is learning file
*****
READING :-> SUCCESSFUL
*****
PRESS
1 :-> To Create File
2 :-> To Perform operation
3 :-> BACK
Enter your choice : 3
*****
MOVING BACK
*****
PRESS
1. Retrieving the file name
2. Business level operations
3. Option to close Application
*****
Enter your Choice : 1
*****
PRESS
1. GET THE SORTED LIST
2. SEARCH A FILE
3. BACK
Enter your choice : 1
*****
SORTED LIST
Git Run TODO Problems Terminal Services Build
All files are up-to-date (8 minutes ago)
297:1 CRLF UTF-8 4 spaces master
Type here to search 31°C Mostly cloudy 5:21 PM 7/29/2022
```