File Management System

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Ministry of communication

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1. File Management System

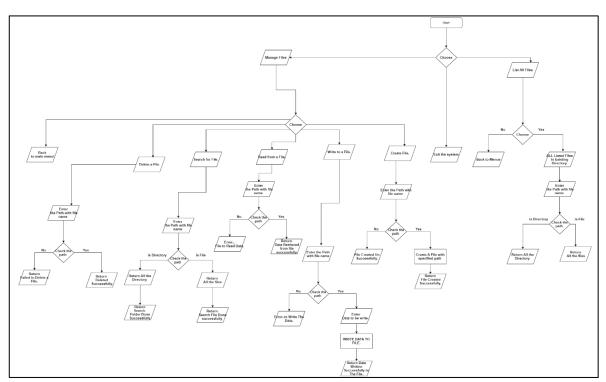
1.1 Project Description

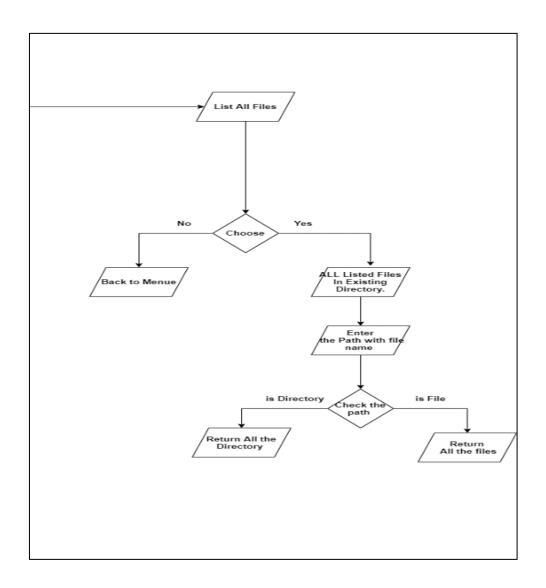
The project is based on managing user files in general in the system. Where the user chooses from the menu whether he wants to know the list of all files in the directory in the system or manage all files. The user can manage files by creating a new file, writing within a specified file, reading from a specified file, deleting a file, and searching for a specified file.

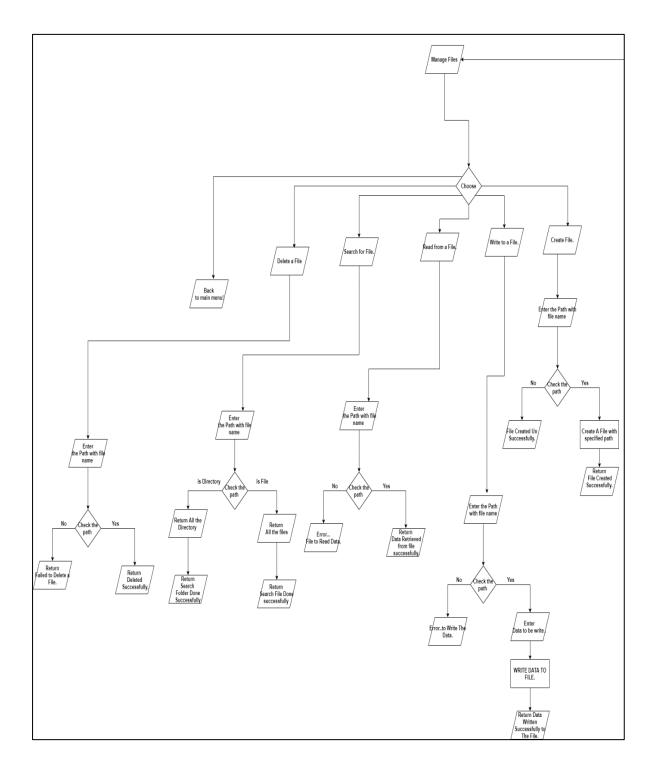
The files will be managed by giving the user a clarification if the process was done correctly or not through a printing process after each process specified by the user.

E.g., if the user searches for a file in a specific folder but that file was previously deleted by the user, it will print 'Directory is empty' or 'Directory is not empty'.

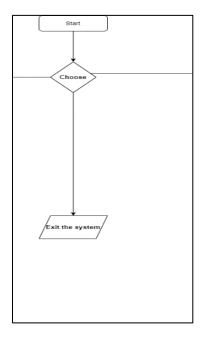
2. Architecture diagram / flow chart





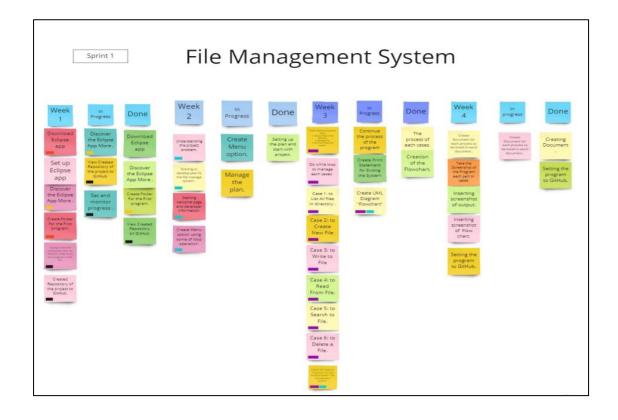


Clearer: part 3_ Exit the system



3. Project Users Stories: (Agile and Scrum)

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4. Source code files

```
package ALLFiles;
import java.io.BufferedReader;
import java.io.BufferedWriter;
import java.io.File;
import java.io.FileReader;
import java.io.FileWriter;
import java.io.IOException;
import java.util.Scanner;
public class CreateAFile {
public static void main(String[] args) {
System.out.println(
"\t\t\nMy name : Al-anoud Bo-dokhi. \nI train the Ministry of
Communications and Information Technology. \nThis First Project For
Phase_1\n ");
int choice, choice2;
String path = "";
Scanner in = new Scanner(System.in);
Scanner input = new Scanner(System.in);
do {
System.out.println(
System.out.println("\nPlease Choose From the Menue What You Want to Do With
Your Files .\n");
System.out.println("[1] List ALL Files.");
System.out.println("[2] Manage Files option. ");
System.out.println("[3] Exit.");
System.out.print("Choice: ");
choice = in.nextInt();
switch (choice) {
case 1: // List ALL Files
System.out.println(
```

```
"\t\t\t******************************List ALL Files
option*********************************):
System.out.println("[1]ALL Listed Files In Existing Directory.");
System.out.println("[2]Exit...Back to main menu!");
System.out.print("Choice: ");
choice2 = in.nextInt();
switch (choice2) {
case 1:
System.out.println("\t\tENTER THE FILE NAME WITH PATH TO LIST ALL FILES
IN THIS DIRECTORY. \n");
String folderpath = input.nextLine();
File folder = new File(folderpath);
File[] files = folder.listFiles();
if (folder.isDirectory()) {
if (folder.list().length > 0) {
System.out.println("\nThe directory " + folder.getPath() + " is not
empty\n");
} else {
System.out.println("\nThe directory " + folder.getPath() + " is empty\n");
}
}
// Iterate the files array
for (File file : files) {
// check if the file
if (file.isFile()) {
System.out.println("File : " + file.getName());
} else {
if (file.isDirectory()) {
System.out.println("Folder : " + file.getName());
}
}
}
System.out.println("\nThe Return of Current File names in Directory.\n");
break;
case 2:
System.out.println("\t\tBack to main menu....!\n");
```

```
break;
}
break;
case 2: // Manage Files option.
System.out.println(
option*******************************);
System.out.println("[1] Create File.");
System.out.println("[2] Write to a File.");
System.out.println("[3] Read from a File.");
System.out.println("[4] Search for File.");
System.out.println("[5] Delete a File");
System.out.println("[6] Exit");
System.out.print("Choice: ");
choice2 = in.nextInt();
switch (choice2) {
case 1:
// Create or Add new file with entered path
System.out.println("\t\tENTER THE PATH WITH THE FILE NAME YOU WANT TO
CREATE THE FILE TO. \n");
String filename = input.nextLine();
// String directory =System.getProperty("user.home");
path = File.separator + filename;
File myFile = new File(path);
myFile.getParentFile().mkdirs();
try {
if (myFile.createNewFile()) {
System.out.print("\nFile Created Successfully.\n");
} else {
System.out.print("\nFile Created Unsuccessfully.\n");
} catch (IOException e) {
// TODO Auto-generated catch block
System.out.print("\nError.....Failed to Create The File.\n");
}
break;
case 2:
// Write to File
```

```
System.out.println("\t\tENTER THE PATH WITH FILE NAME YOU WANT TO WRITE
THE DATA TO . \n");
filename = input.nextLine();
System.out.println("\t\t\tWRITE DATA TO FILE.\n ");
String data = input.nextLine();
try {
FileWriter output = new FileWriter(filename);
BufferedWriter br = new BufferedWriter(output);
output.write(data);
System.out.print("\nData Written Successfully to The File.\n");
System.out.print("\n");
output.close();
br.close();
} catch (IOException e) {
// TODO Auto-generated catch block
System.out.print("\nError.... to Write The Data.\n");
System.out.print("\n");
}
break;
case 3:
// Read or Retrieve data from file
System.out.println("\t\tENTER THE PATH WITH THE FILE NAME YOU WANT TO
READ. \n");
filename = input.nextLine();
try {
FileReader readData = new FileReader(filename);
BufferedReader br = new BufferedReader(readData);
String line;
while ((line = br.readLine()) != null) {
System.out.print(line);
System.out.print("\n");
System.out.println("\nData Retrieved from file successfully.\n");
System.out.print("\n");
readData.close();
br.close();
} catch (IOException e) {
// TODO Auto-generated catch block
System.out.println("\nError...File to Read Data.\n");
}
```

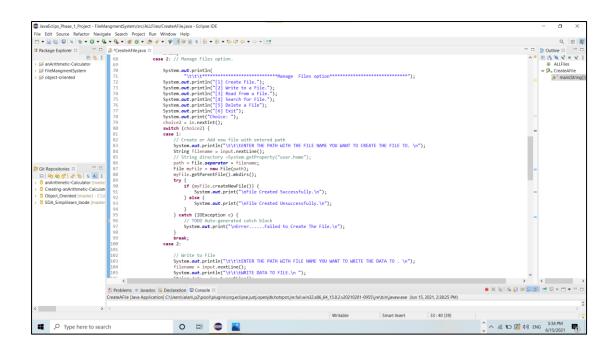
```
break;
case 4:
// Search the file
System.out.print("\t\t\tENTER THE PATH DIRECTORY TO SEARCH.\n");
String ser = input.nextLine();
path = File.separator + ser;
File fs = new File(path);
File[] files = fs.listFiles();
for (File f : files) {
if (f.isFile()) {
System.out.println("\nSearch File Done successfully : \n" + f.getName());
} else {
if (f.isDirectory()) {
System.out.println("\nSearch Folder Done Successfully : \n" + f.getName());
}
}
System.out.println("\nSearch Done Successfully.\n");
break;
case 5:
// Delete file from directory
System.out.println("\t\t\tENTER THE PATH OR THE FILE NAME TO BE
DELETED.\n");
filename = input.nextLine();
path = File.separator + filename;
File fpath = new File(path);
if (fpath.delete()) {
System.out.println("\nFile : " + fpath.getName() + " Deleted
Successfully.\n");
} else {
System.out.println("\nFailed to Delete a File.\n");
}
break;
case 6:
System.out.println("\nBack to main menu!\n");
break;
}
break;
case 3:
```

```
System.out.println("\nExiting the system!\n");
break;}} while (choice != 3);}// End Main}
```

Screen Shot of the Source Code:

```
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```







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```

5. Output Screen shot

1.Welcome Screen

```
Problems © Javadoc © Dedaration © Console SI

TeateAFile (Java Application) C\Users\alam\p2\poof\plugins\org.eclipse.justj.openjdkhotspot.jre.full.win32x86_64_15.02v20210201-0955\jre\bin\javaw.exe (Jun 15, 2021, 6:12:08 PM)

Thy name : Al.-anoud Bo-dokhi.
I train the Ministry of Communications and Information Technology.

This First Project For Phase_1

***Welcome to Files Managment System!**

Please Choose From the Menue What You Want to Do With Your Files .

[1] List ALL Files.
[2] Manage Files option.
[3] Exit.
Choice:
```

2. Choose 1: List ALL Files in Existing Directory

3.Choose 2: Create File

```
Please Choose From the Menue What You Want to Do With Your Files .
[1] List ALL Files.
[2] Manage Files option.
[3] Exit.
Choice: 2
                    [1] Create File.
[2] Write to a File.
[3] Read from a File.
[4] Search for File.
[5] Delete a File
[6] Exit
Choice: 1
                    ENTER THE PATH WITH THE FILE NAME YOU WANT TO CREATE THE FILE TO.
C:\Users\ialan\OneDrive\Desktop\test\Data.txt
File Created Successfully.
```

4.Choose 2: Write to File

```
Please Choose From the Menue What You Want to Do With Your Files .
[1] List ALL Files.
[2] Manage Files option.
[3] Exit.
Choice: 2
                     [1] Create File.
[2] Write to a File.
[3] Read from a File.
[4] Search for File.
[5] Delete a File
[6] Exit
Choice: 2
                     ENTER THE PATH WITH FILE NAME YOU WANT TO WRITE THE DATA TO .
C:\Users\ialan\OneDrive\Desktop\test\Data.txt
                     WRITE DATA TO FILE.
I am Alanoud Bo-dokhi Nice to Meet You
Data Written Successfully to The File.
```

5. Choose 2: Read From File.

```
Please Choose From the Menue What You Want to Do With Your Files .
[1] List ALL Files.
[2] Manage Files option.
[3] Exit.
Choice: 2
                    [1] Create File.
[2] Write to a File.
[3] Read from a File.
[4] Search for File.
[5] Delete a File
[6] Exit
Choice: 3
                    ENTER THE PATH WITH THE FILE NAME YOU WANT TO READ.
C:\Users\ialan\OneDrive\Desktop\test\Data.txt
I am Alanoud Bo-dokhi Nice to Meet You
Data Retrieved from file successfully.
```

6.Choose 2: Search File in directory

```
[1] List ALL Files.
[2] Manage Files option.
[3] Exit.
Choice: 2
                     [1] Create File.
[2] Write to a File.
[3] Read from a File.
[4] Search for File.
[5] Delete a File
[6] Exit
Choice: 4
                     ENTER THE PATH DIRECTORY TO SEARCH.
::\Users\ialan\OneDrive\Desktop\test
Search File a.txt Done successfully
Search File b.accdb Done successfully
Search File c.bmp Done successfully
Search File Data.txt Done successfully
Search File e.pub Done successfully
```

7.Choose: Delete A File.

8. Choose 2: Back to Main Menu

9. Choose 3: Exiting the System.