APPLICATION EXECUTION: The program uses **Java 17 so JDK/JRE** must be on that level.

The program can be run after unzipping the code and opening the java directory in a command line using **cd** command:

Linux/macOS: cd code/src/main/java

Windows: cd code\src\main\java

All the below command must be run inside java directory

Then compiling using javac command:

Linux/macOS: javac tz/co/vodacom/bujikun/Main.java

Windows: javac tz\co\vodacom\bujikun\Main.java

Then execution using **java** command:

Linux/macOS: java tz/co/vodacom/bujikun/Main

Windows: $java tz \co \vodacom \bujikun \Main$

1. Displaying files

When the program launches, it will create 2 files in the root directory which can be found from the location where the app was launched from. These can be viewed by choosing 1 from the main menu.

```
java tz/co/vodacom/bujikun/Main

-/FSD cd code/src/main/java
-/FSD/code/src/main/java
javac tz/co/vodacom/bujikun/Main.java
javac tz/co/vodacom/bujikun/Main.java
javac tz/co/vodacom/bujikun/Main.java
javac tz/co/vodacom/bujikun/Main.java
javac tz/co/vodacom/bujikun/Main.

LockedMe.com - File Management Application
Developer: Newton Bujiku - bujikun@vodacom.co.tz

1. Display All Files (Ascending Order)
2. File Operations
3. Exit Application

Choose option number 1/2/3? : 1

ROOT DIRECTORY: /Users/newtonbujiku/FSD/code/src/main/java/root
Available Files:

1. file-0@autogenerated.txt
2. file-1@autogenerated.txt
Enter * to go back to main menu:
```

The program will also create additional files if launched with command line options like below

```
java tz/co/vodacom/bujikun/Main custom-user-file anotherfile file.txt oop.doc
~/FSD/code/src/main/java ) java tz/co/vodacom/bujikun/Main custom-user-file anotherfile file.txt oop.docx
LockedMe.com - File Management Application
Developer: Newton Bujiku - bujikun@vodacom.co.tz
1. Display All Files (Ascending Order)
2. File Operations
3. Exit Application
Choose option number 1/2/3? : 1
ROOT DIRECTORY: /Users/newtonbujiku/FSD/code/src/main/java/root
Available Files:
1. anotherfile
2. custom-user-file
3. file-0@autogenerated.txt
4. file-1@autogenerated.txt
5. file.txt
6. oop.docx
Enter * to go back to main menu:
```

Navigation

The application uses * for navigation through various application part. Any attempt to create a file containing * will be ignored. If a file containing * is created manually in the root directory, it will be deleted by a watcher thread.

2.a Creating a new file

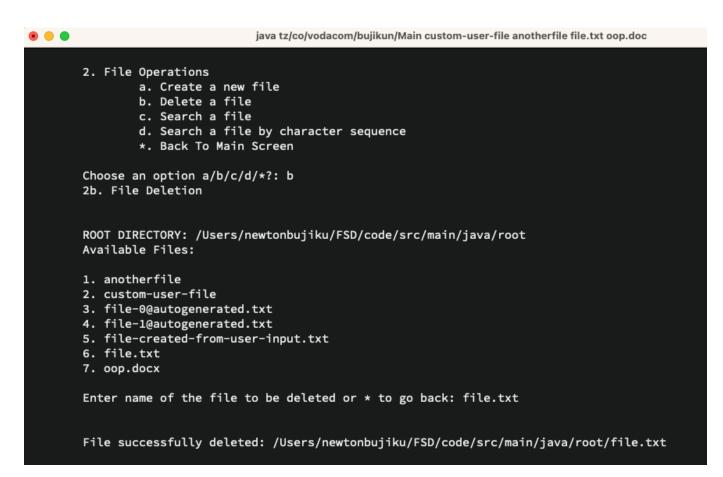
All user entered valid file names will be created as files in the root directory When a file is created successfully the application will print a success message and list all file and go back to file operations menu. If the file was not created an error message will be printed.

```
• • •
                                  java tz/co/vodacom/bujikun/Main custom-user-file anotherfile file.txt oop
        LockedMe.com - File Management Application
        Developer: Newton Bujiku - bujikun@vodacom.co.tz

    Display All Files (Ascending Order)

        2. File Operations
        3. Exit Application
        Choose option number 1/2/3? : 2
        2. File Operations
                a. Create a new file
                b. Delete a file
                c. Search a file
                d. Search a file by character sequence
                *. Back To Main Screen
        Choose an option a/b/c/d/*?: a
        2a. File Creation
        Enter file name or * to go back: file-created-from-user-input.txt
        File successfully created: root/file-created-from-user-input.txt
        ROOT DIRECTORY: /Users/newtonbujiku/FSD/code/src/main/java/root
        Available Files:
        1. anotherfile
        2. custom-user-file
        3. file-0@autogenerated.txt
        4. file-1@autogenerated.txt
        5. file-created-from-user-input.txt
        6. file.txt
        7. oop.docx
        2. File Operations
                a. Create a new file
                b. Delete a file
                c. Search a file
                d. Search a file by character sequence
                *. Back To Main Screen
        Choose an option a/b/c/d/*?:
```

2.b File deletion



2.c File Search by exact file name

A name of the file and extension(if any) must be typed exactly otherwise it will be an error

```
2. File Operations
        a. Create a new file
        b. Delete a file
        c. Search a file
        d. Search a file by character sequence
        *. Back To Main Screen
Choose an option a/b/c/d/*?: c
2b. File Search
Enter exact name of the file to be searched or * to go back: oop.docx
Found file: /Users/newtonbujiku/FSD/code/src/main/java/oop.docx
2. File Operations
        a. Create a new file
        b. Delete a file
        c. Search a file
        d. Search a file by character sequence
        *. Back To Main Screen
Choose an option a/b/c/d/*?: c
2b. File Search
Enter exact name of the file to be searched or * to go back: fakefile.pdf
File not present in the root directory
2. File Operations
        a. Create a new file
        b. Delete a file
        c. Search a file
        d. Search a file by character sequence
        *. Back To Main Screen
Choose an option a/b/c/d/*?:
```

2.d File search by a sequence of characters

Provide a search string, and if any of the file names contains that string, the file will be displayed.

```
java tz/co/vodacom/bujikun/Main custom-user-file anotherfi
2. File Operations
        a. Create a new file
        b. Delete a file
        c. Search a file
        d. Search a file by character sequence
        *. Back To Main Screen
Choose an option a/b/c/d/*?: d
2b. File Search By Character Sequence
Enter character(s) to be used in search or * to go back: us
Found 2 files:
        custom-user-file
        file-created-from-user-input.txt
2. File Operations
        a. Create a new file
        b. Delete a file
        c. Search a file
        d. Search a file by character sequence
        *. Back To Main Screen
Choose an option a/b/c/d/*?: d
2b. File Search By Character Sequence
Enter character(s) to be used in search or * to go back: ed
Found 3 files:
        file-0@autogenerated.txt
        file-1@autogenerated.txt
        file-created-from-user-input.txt
```