

# **Development of LockedMe.com File Management Application**

Developer: Newton Bujiku – bujikun@vodacom.co.tz

## **GIT URL :**

The progress of the project is hosted at github repository below:

<https://github.com/bujikun/java-fsd-newtonbujiku-bujikun-vodacom.co.tz>

Under the Phase 1 directory

## **SPECIFICATION**

This is a command line application that enables a user to create, view, delete and search files in a given directory. The user can navigate through different options present of the screen through user inputs.

## **TECHNOLOGIES & CONCEPTS**

This application uses the following concepts and technologies

- Java 17
- Maven
- IntelliJ Idea
- Git & Github
- Agile Scrum Framework

For Java concepts in the project: The application requires JDK 17.

It uses concepts such as Multithreading, Regular Expressions, Generics, Stream API, Data Structures, Java NIO API and other basic java concepts.

## **Algorithms**

- Sorting : Selection Sort
- Searching : Binary Search

## **PROJECT IMPLEMENTATION**

The project was completed in 2 sprints:

### **Sprint 1**

The following were achieved in this designing sprint:

- Determining Java concepts to be used
- Choosing data structures and algorithms
- Defining project scope and structure
- Preparing remote repository
- Sprint planning and review

### **Sprint 2**

The following were done in this sprint including scrum ceremonies and user stories:

- Sprint Planning
- As a user I would like to be able to launch the program via a command line and pass arguments so as to create initial files
- As a user I would like to be able to select an option to create a new file
- As a user I would like to be able to select an option to delete an existing file
- As a user I would like to be able to select an option to view all files in a directory
- As a user I would like to be able to select an option to search a file using a filename
- As a user I would like to be able to select an option to search a file by passing a sequence of characters

## How run the program.

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

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

Windows: *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.java*

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

Also this project can be loaded into an IDE like IntelliJ and Eclipse and then using the specific IDE run mechanism.

**The screenshot.pdf** file has all the screenshots depicting the execution of the application step by step.

## Source Code Documentation

There is also a java doc generated documentation that contains all the information about classes and what they do. This can be reached in the directory **/code/documentation** and clicking the **index.html** which will open in the browser.