**Project and developer details:**

This project named “LockedMe App(application)” is to digitize the services concerning files that are already available or yet to be created in a given path(root folder). This project is developed by Srichandan Yerragudi.

**Sprints Planned:**

Four sprints were planned and all the tasks were achieved successfully as explained below sprint-wise

1. **Sprint-I**

* Understood the specifications needed for the application to function as desired and started to prioritize the tasks.
* Menu was created.

1. **Sprint-II**

* Business operations were developed and tested successfully.

1. **Sprint-III**

* First option of the menu that is to retrieve file names in the directory was developed and tested successfully.
* These files will be always returned in ascending order as it is stored the same way in the file list data structure.

1. **Sprint-IV**

* Navigation option to return back to main menu was added.

**Flowchart of the application:**

2

START

1

END

Find

Delete

Return to menu

1. Main Menu
2. Business Operation Menu

Retrieve Files

Create

**Algorithm of the application:**

1. takes an input [1,2,3]
2. depending on the input decision is made to retrieve the files or go into business operations menu or exit the application respectively
3. if 1 were to be the input then, the application would print out the files available inside the directory and terminate
4. If 3 were to be the input the, the application would terminate.
5. if 2 were to be the input then, the application would show a menu containing business operations with four options [1,2,3,4] waiting for input.
6. If 1 were to be the input then, the application would ask for the file name that the user would want to create. Creates it, returns a message as “File created” and terminates.
7. If 2 were to be the input then, the application would ask for the file name that the user would want to delete. Deletes it if found and returns a message as “File deleted” and terminates. If not found, the application would return “File Not Found” message and terminates
8. If 3 were to be the input then, the application would ask for the file name to be searched. If found returns message as “file found” else would return a message “file not found”
9. If 4 were to be the input then, the application would return to the main menu with three options.

**Core Concepts used in the code:**

The following core concepts were used in the following code,

* File handling
* Looping Statements
* Conditional Statements
* Try Catch and throw
* Switch case statements
* Type casting
* Generics

**GitHub Link:**

* <https://github.com/chan19dot/LockedMeSimpliLearnPhase1/tree/master>

**Conclusion:**

The application can further be improved by using Swing library in javax and giving the application a much friendly GUI. This will also enhance the visual appearance of the application. Unique selling points of this application would be that it would decrease the human effort of going through a repository and spending valuable time on a particular file that is not found whereas, it could be found instantly and increases productivity.