

### **Project and developer details:**

1. This is a Java project to create a file management system, command line based, for company Company Lockers Pvt. Ltd., with application name as "LockedMe.com"
2. Developer details: Reema Kuwar.

### **Technologies/ software used in the project:**

1. Eclipse: An IDE to code for the application
2. Java 15: A programming language to develop the prototype
3. Git: To connect and push files from the local system to GitHub
4. GitHub: To store the application code and track its versions

**GitHub link to my project is as below:**

<https://github.com/Reema2309/SLProject1.git>

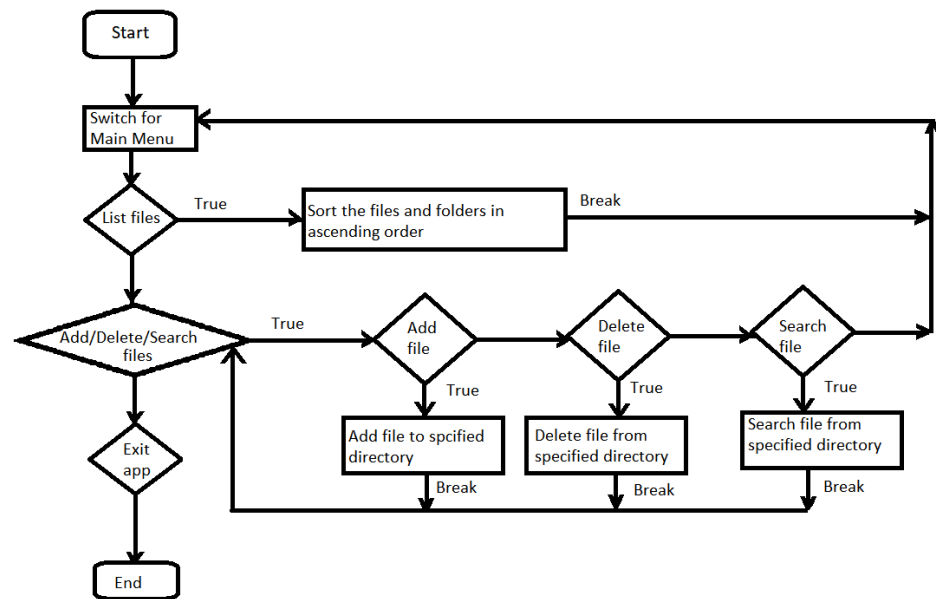
### **Algorithms used:**

1. For listing files and folders in ascending order, Arrays.sort() method is used, which uses an iterative merged sort algorithm
2. For searching files in a directory, linear searching is used

### **Steps of execution:**

1. Main menu: has 3 options
  - a. To list files and folders in a directory
  - b. To perform actions on a directory (like add/delete/search/get back to main menu)
  - c. Exit application
2. On option 1, for listing a directory option, you can add any directory to be listed in your system and you will get the result in ascending order for the same
3. On option 2, for file operations, you will be taken to a different sub-menu as follows:
  - a. Add a file in any directory on the system
  - b. Delete a file from any directory on the system
  - c. Search a file from any directory on the system
  - d. Go back to main menu
4. On addition, exceptions are handled to check if selected directory is valid/exists in the system.  
On delete, exceptions are handled to check if directory and file is present or not, and files with blank spaces cannot be deleted.  
On search, exceptions are handled to check if directory and file to be searched is present or not.  
On main menu and submenu, exceptions are handled to check if the option is numeric only and not string
5. Option 3 on main menu is used to get out of the application.
6. All exceptions are handled.

### Flow chart:



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### Conclusion:

This product has all possible exceptions handled, for smooth execution by user. It has all your requirement for it's file management system.