# LockedMe.com

prototyped application (User Interaction via command line) documentation

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GitHub repository link: https://github.com/arsharunnithan/simpliLearnJan2023

#### 1. Project and Developer Details

Company Lockers Pvt. Ltd. aims to digitize their products and chose LockedMe.com as their first project to start with. Developer is asked to develop a prototype of the application. The prototype of the application will be then presented to the relevant stakeholders for the budget approval.

- Specification document Product's capabilities, appearance, and user interactions
- Number and duration of sprints required
- Setting up Git and GitHub account to store and track your enhancements of the prototype
- Java concepts being used in the project
- Data Structures where sorting and searching techniques are used.
- Generic features and three operations:
  - o Retrieving the file names in an ascending order
  - Business-level operations:
    - Option to add a user specified file to the application
    - Option to delete a user specified file from the application
    - Option to search a user specified file from the application
    - Navigation option to close the current execution context and return to the main context
  - Option to close the application

The goal of the company is to deliver a high-end quality product as early as possible.

Project development assigned to: Arsha R Unnithan

Full Stack Developer, Company Lockers Pvt. Ltd.

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**Development cycle:** 2 Sprints

#### Tech stack used:

- Java
- Eclipse
- Git
- GitHub
- Scrum
- Search and Sort techniques: Stream, Set, Files, Collections, Iterator, List
- Core concepts used: I/O Streams, Exception handling, OOPs, Recursion, Sorting
- Microsoft word used for documentation. Document shared in pdf format.

# 2. Sprints planned and the tasks achieved in them

## **Agile Project Management**

| Project Duration                      | 2 Weeks (15 working days) |
|---------------------------------------|---------------------------|
| Number of Sprints                     | 2                         |
| Total number of product backlog items | 12                        |

#### 2.1 Project planning details

| Sprint | Start date | End date   | Product Backlog Item ID                      |
|--------|------------|------------|--|
| Week 1 | 01/27/2023 | 02/02/2023 | 1.1, 1.1.2, 1.1.3, 1.2,<br>1.3, 1.3.1, 1.3.2 |
| Week 2 | 02/03/2023 | 02/09/2023 | 1.3.2.1, 1.3.2.2, 1.3.2.3,<br>1.3.2.4, 1.3.3 |

## 2.2 <u>Product Backlog/User Stories</u>

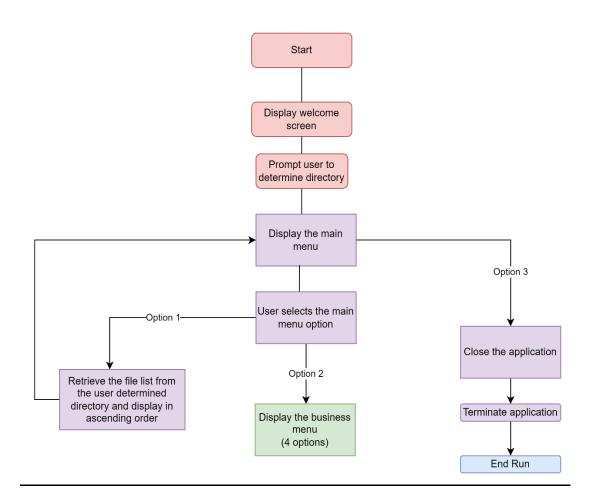
| ID    | User Story   | Story Points | Assigned Sprint |
|-------|--|--------------|-----------------|
| 1.1   | The LockedMe.com application should display the welcome screen.                              | 1            | Sprint 1        |
| 1.1.2 | Application name and developer details should be displayed.                                  | -            | Sprint 1        |
| 1.1.3 | Features to accept<br>the user input to<br>select one of the<br>options should be<br>listed. | -            | Sprint 1        |

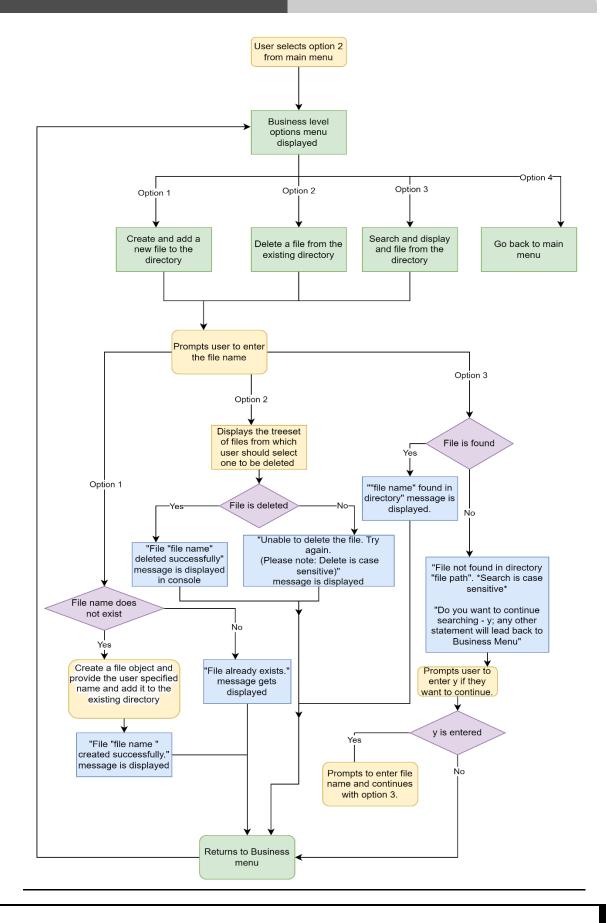
| 1.2     | Ask user to specify the target directory for file operations. It cannot be changed further.          | 1 | Sprint 1 |
|---------|--|---|----------|
| 1.3     | A numerical menu of<br>three operations<br>should be considered<br>as the main menu.                 | 1 | Sprint 1 |
| 1.3.1   | First menu option should retrieve the file names and sort them in an ascending order.                | 2 | Sprint 1 |
| 1.3.2   | Second main menu operation is considered Business level operations with four option in it.           | 2 | Sprint 1 |
| 1.3.2.1 | First option to add a user specified file to the directory(Case sensitivity could be ignored)        | 2 | Sprint 2 |
|         | <ul> <li>Ask user a file<br/>name and<br/>provide it to<br/>the new file<br/>being added.</li> </ul> | - |          |
|         | <ul> <li>Return         <ul> <li>appropriate</li> <li>messages</li> </ul> </li> </ul>                | - |          |
| 1.3.2.2 | Second option of<br>Business menu to   | 2 | Sprint 2 |

|         | delete a user specified file from the existing directory.   |   |          |
|---------|---|---|----------|
|         | <ul> <li>User should be<br/>displayed with<br/>a list of<br/>existing files in<br/>the directory<br/>from which<br/>they can select<br/>which one to<br/>delete.</li> </ul> | - |          |
|         | <ul> <li>Delete the user<br/>specified file<br/>and Return<br/>appropriate<br/>messages.</li> </ul>   | - |          |
|         | (Delete function is case sensitive)   |   |          |
| 1.3.2.3 | Third option of Business menu is to search and display a user specified file from the existing directory.   | 2 | Sprint 2 |
|         | <ul> <li>Search and<br/>display the file<br/>and return<br/>appropriate<br/>messages.</li> </ul>  | - |          |
|         | <ul> <li>User should be<br/>given a second<br/>chance is the</li> </ul>   | - |          |

|         | file is not found.  |   |          |
|---------|---|---|----------|
| 1.3.2.4 | Fourth business menu option is to go back to the main menu. | 1 | Sprint 2 |
| 1.3.3   | Third main menu option should close the application         | 1 | Sprint 2 |

# 3. Algorithms/Flowchart of the application





#### 4. Source Code

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| This newFile = new File (path) | This search | This s
```

#### 5. Outputs – screenshots

#### Upon Run, welcome screen:

```
Problems * Javadoc * Declaration ** Console *

VirtualKey (1) [Java Application] C\SoftwareCenterApplications\Edipse |DE for Java Developers -2022-06-R\Edipse |DE for Java Developers -2022-06-R\Edipse |pugins\org edipse justj.openjdk.hotspotjre full.win32x86_64_17.0.3 v20220515

Company Lockers Pvt. Ltd. presents Locked Me 1.0

Welcome to LockedMe.com application.

Version: 1.0 PROTOTYEE

Full Stack Developer: Arsha R Unnithan

Do you wish to use our default directory: y or n?

Main Menu

1. Display the files in the directory
2. Buisness Level Operations
3. Close the application

Flease choose an option:
```

#### Upon choosing option 1:

```
Problems * Javadoc * Declaration ** Console *

Virtual(xy)(1) [Java Application (C.)Software:CenterApplications/Ligipse IDE for Java Developers - 2022-06-Ricipse IDE for Java Developers - 2022-06-Ricipse plugins) org edipse just, openigik hotspot just full wind 2 x86 64 17.0 3.v20220515-

Do you wish to use our default directory; y or n?

Y

Main Menu

1. Display the files in the directory
2. Buisness Leveval Operations
3. Close the application

Please choose an option:

1 Retrieving files from: D:\Java Project\LockedMe\src\lockedMe\Directory

file1.txt
file2.txt
file2.txt
file2.txt
Directory consists of 4 files.

Main Menu

1. Display the files in the directory
2. Buisness Level Operations
3. Close the application

Please choose an option:

Please choose an option:
```

#### Upon choosing option 2:

#### Upon choosing option 1 in business menu:



#### Upon choosing option 1 providing already existing file name:



## Upon choosing option 2 in business menu:

# Upon choosing option 2 and giving invalid name:

## Upon choosing option 3 in business menu:



#### Upon choosing option 3 and giving invalid name:

#### Upon choosing option 4 business menu:



#### Upon choosing option 3 from main menu:



#### Conclusion:

Above application is just a prototype and it could be enhanced in various ways since lacks so much other features like advanced search filtering, robust file conversion tools, cloud integration, security features, automatic file conversion and versioning.

As for USPs, usability, robustness, performance, scalability, flexibility and reliability could be valid points.