10/9/2021

Nidhi Prajapati

*Full Stack Developer*

Lockers Pvt. Ltd.

LockedMe.com

Project Specification Document

Table of Contents

[Project Capabilities 2](#_Toc84826948)

[Appearance 3](#_Toc84826949)

[Welcome Screen 3](#_Toc84826950)

[User Choosing Invalid Option - Handling 3](#_Toc84826951)

[User selected first option to show all the files – which by default shows in alphabetic order 4](#_Toc84826952)

[User Selecting second option to sort files in reverse alphabetic order 5](#_Toc84826953)

[User selecting third option to add a new file with some text content in it. 6](#_Toc84826954)

[Deleting a file from the folder 7](#_Toc84826955)

[Searching a file 8](#_Toc84826956)

[Searching an invalid file 9](#_Toc84826957)

[Exiting from the application 10](#_Toc84826958)

[User Interaction 11](#_Toc84826959)

[Sprint Details 12](#_Toc84826960)

[Developer Details 13](#_Toc84826961)

[Algorithm Used 14](#_Toc84826962)

[Core Concepts Used 15](#_Toc84826963)

[GITHUB Details 16](#_Toc84826964)

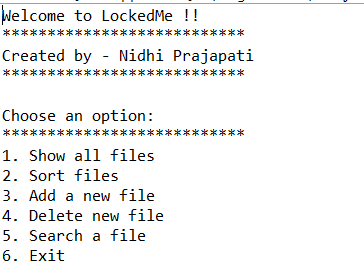
[Conclusion on enhancing the project 17](#_Toc84826965)

# Project Capabilities

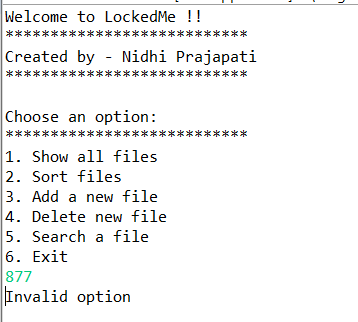
1. User will be provided with different options like:
   1. View all available files in a folder
   2. Sort the files names alphabetically and in revers alphabetic order
   3. Delete a file provided by User from the folder
   4. Add a new file and also updating content of the file
   5. Searching a file name in the folder with case insensitive
2. The application is very interactive, and takes all the input from the User directly.
3. The view all files also take any file in the sub directory.
4. The add new file also features to update the content of the file, directly from the User.
5. User is provided with the interactive menu, which keep existing unless user decides to choose exit option.
6. The application is scalable.

# Appearance

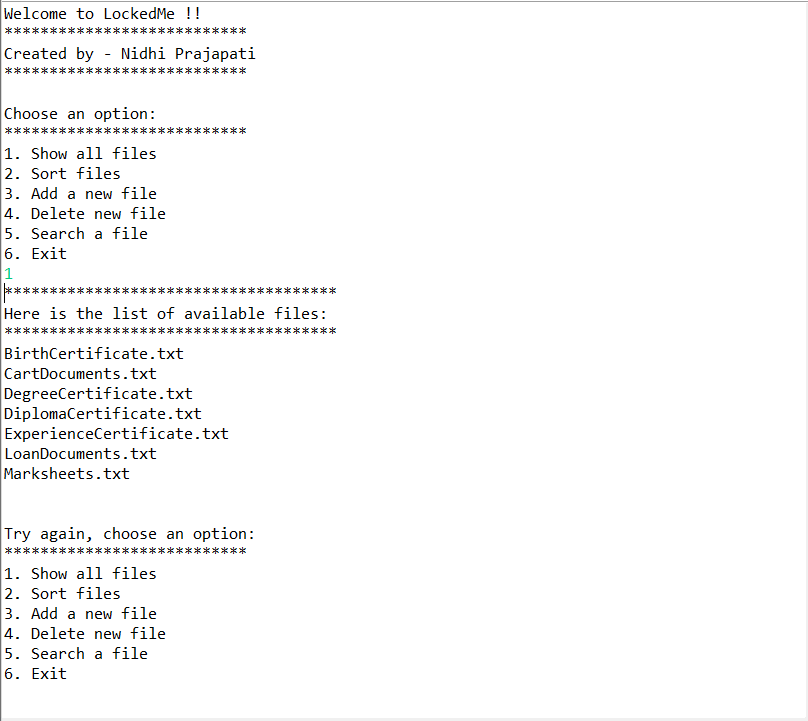
## Welcome Screen



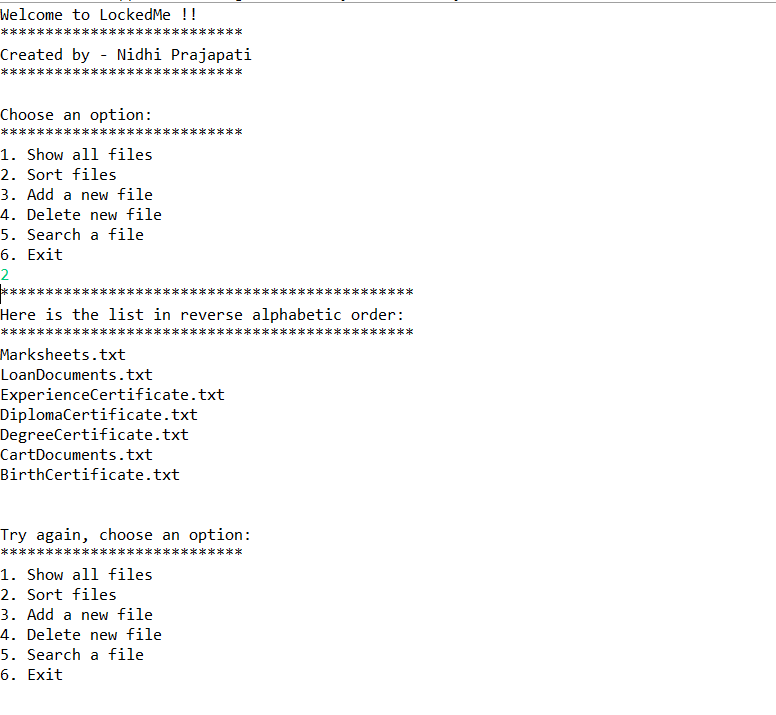
## User Choosing Invalid Option - Handling



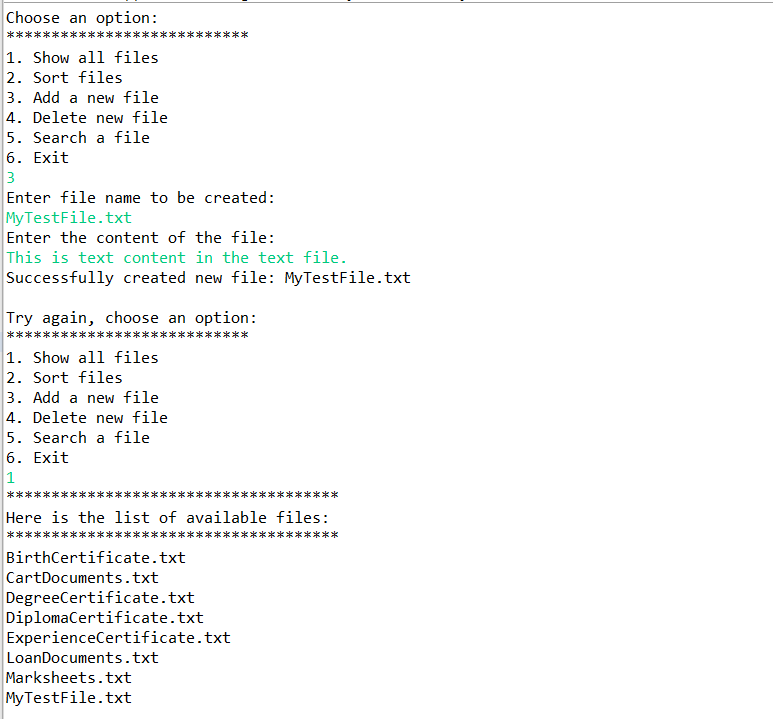
## User selected first option to show all the files – which by default shows in alphabetic order



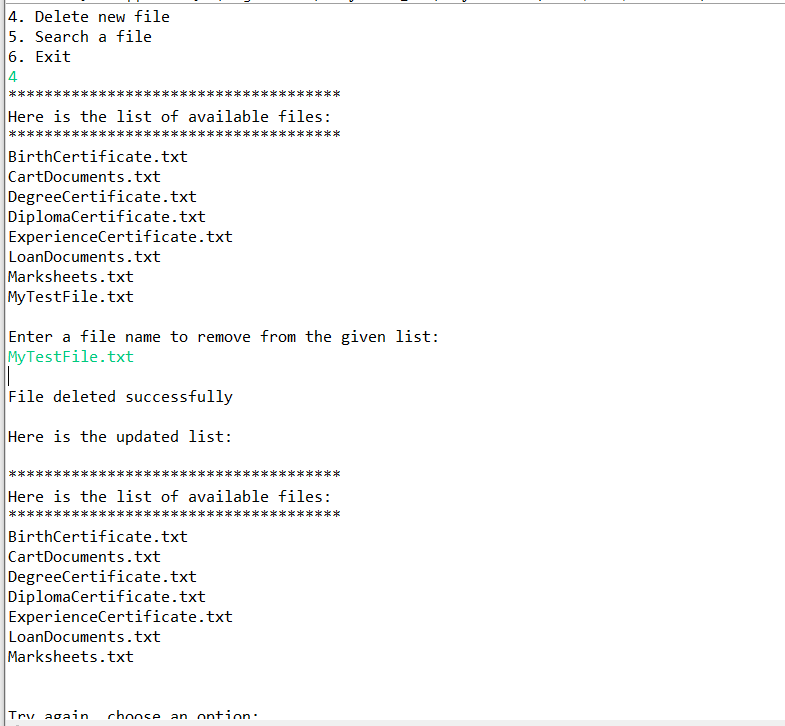
## User Selecting second option to sort files in reverse alphabetic order



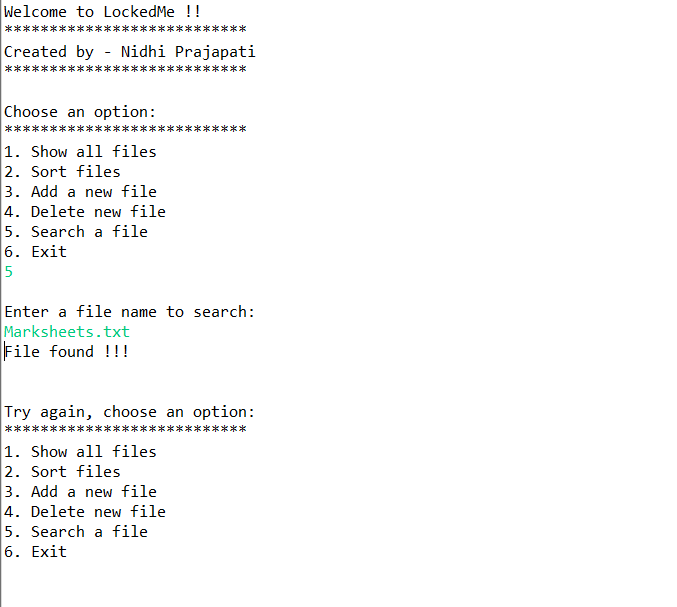
## User selecting third option to add a new file with some text content in it.



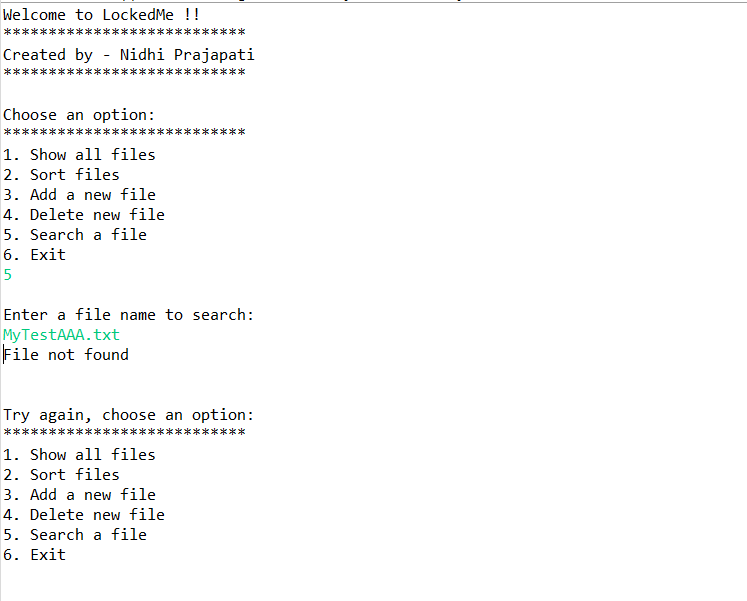
## Deleting a file from the folder



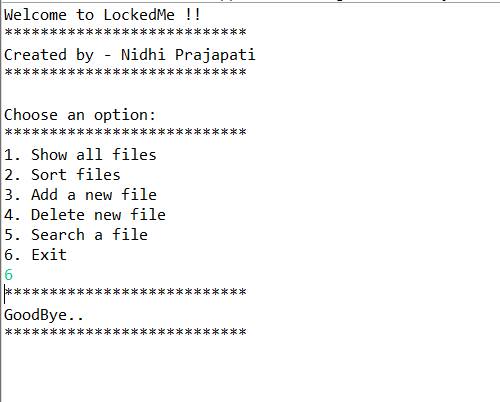
## Searching a file



## Searching an invalid file



## Exiting from the application



# User Interaction

Here are the User interactions steps:

1. User will be presented with all the menu options in the Console, that includes
   1. Show all files
   2. Sort files
   3. Add new file
   4. Remove a file
   5. Search a file
   6. Exit
2. **Show all Files**: When User input 1, which is Show all files, User will be presented with all the available file names in alphabetic order. User will get option to try again with different option, which will continue until User input 6 to exit from application
3. **Sort Files**: When User input 2, which is Sort files, in this User will be presented with all the available file names in reverse alphabetic order.
4. **Add new file**: When User input 3, User will be allowed to add a new file and its content from the console. User will be asked to input the name of the file and then content to be added in the file, then once successful, User will be provided with the success message, in case of problem while creating a new file, error will be shown. If User inputs a file name which already exists in the directory, a message will appear accordingly.
5. **Remove a file**: When User input 4, User is allowed to remove a file from the directory, User will be first presented with all the file names available and then User can input exact file name to be deleted. If there is an issue while deleting a file, a proper message would appear.
6. **Search a file**: When User input 5, User is allowed to search a file. User have to provide the file name which is case insensitive, and if the exact file name is found, User will see a message, file is found, else, User will see that file not found.
7. Note: User can continue using the menu, incase User input wrong menu number, Invalid option message would appear as well.
8. **Exit:** When User enters 6, User will be exiting from the application, the try again option won’t appear anymore in this case.

# Sprint Details

The whole project took 2 sprints, where each sprint is of one week, each developer capacity 1hour per day.

**Sprint -1 Accomplishments:**

Completed the initial 3 options namely, Menu, Get files, Sort files.

**Sprint-2 Accomplishments:**

Completed the rest of the project options namely, add file, delete file and Search file.

# Developer Details

**Developer Name**: Nidhi Prajapati

**Designation**: Full Stack Java Developer

**Experience:** 3+ Years

**Company**: Lockers Pvt. Ltd.

**About developer:**

Developer is associated with this company for last 15 days, she is highly efficient in Java coding and understanding the underlying concept. Developer is also good in communication, that enables her to share the ideas and understand the requirements quite effectively. She is passionate about coding and a very cheerful person.

# Algorithm Used

**Algorithm used in this project:** Binary Sort Algorithm

# Core Concepts Used

1. ArrayList
2. Variables and Data types
3. Classes and access modifiers
4. File handling
5. For and While loops
6. If conditions
7. Switch conditions
8. System input and system output classes (Scanner)
9. Static variables and methods
10. Generics
11. Exception handlings
12. Iterators
13. Collections

# GITHUB Details

The GitHub contains:

1. Java project source code
2. Test directory
3. This document

<https://github.com/nidhiprajapati0820/LockedMe.git>

# Conclusion on enhancing the project

As of now the current project is based on interaction on Java console window, later we can include GUI like HTML CSS pages to make it more interactive.