**LockedMe.com Project Specification Document**

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| **Version # and Author** | **Version History** |
| 1.0 – Binu Thankachan | August 11, 2021 - Created document with the following sections: |
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# Sprints planned and the tasks achieved in them

## Project Epic:

Create a command line application that will repeatedly prompt the user with the following options:

1 – List all files in a computer directory in ascending order

2 – Add a file to a computer directory

3 – Search for a file from a computer directory (case sensitive search)

4 – Delete a file from a computer directory (case sensitive delete)

5 – Exit file processing

## User Stories and Sprint Assignments:

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| **User Story** | **Planned Sprint** |
| As a user I want a command line application that will repeatedly prompt me to either, 1 – List All Files in a directory, 2 – Add a file to a directory, 3 – Search for a file from a directory, 4 – Delete a file from a directory, 5 – Exit file processing   * Develop application control structure skeleton without file processing functionality | 1 |
| As a user I want to be able to **exit** from the application | 1 |
| As a user I want to be able to **list** the files in a computer directory I specify in ascending order | 2 |
| As a user I want to be able to **add** a file to a computer directory I specify | 2 |
| As a user I want to be able to **search for** a file from a computer directory I specify | 3 |
| As a user I want to be able to **delete** a file from a computer directory I specify | 3 |
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# Algorithms and flowcharts of the application

# Core concepts used in the project

The core concepts used in this project were:

* Object Oriented Programming
  + Utilizing classes to represent entities
* File handling
  + Creating, reading, finding and deleting files in the file system
* Exception handling
  + Intercepting and processing application errors
* Code modularity
  + Separating processing via separate classes
* Collections
  + ArrayList
* Data Structures
  + ArrayList used to hold names of files
  + List.sort() used to sort the ArrayList in ascending order
* Control mechanisms
  + While loop to control user prompts, input and exit

# Link to the GitHub repository

<https://github.com/bthank/LockedMeProject>

# Conclusion on enhancing the application and defining the Unique Selling Points