

PHASE 1 – APPLICATION SPECIFICATIONS

Product Capabilities

LockedMe.com is an application designed to allow users to create, read, update, and delete user-specified files through an intuitive user interface. The first prototype will allow any user to:

- Retrieve a list of file names in an ascending order
- Add a new user specified file
- Delete a user specified file
- Search a user specified file

Appearance




The prototype of the application will display a menu of all its operations through the console, as well as allow user to interact with it via a command line console.

User Interactions


LockedMe.com will operate through a command line console through the following instructions:

1. Enter (1) to retrieve the list of files, sorted by file names
2. Enter (2) to Create, Update, Delete, and Read file names
 - a. Enter (C) to Create a text file
 - b. Enter (R) to Read a text file
 - c. Enter (U) to Update a text file
 - d. Enter (D) to Delete a text file
 - e. Enter (S) to Search a text file
 - f. Enter (E) to Exit submenu
3. Enter (3) to close the application





Backlog

 Create Specification Document	P1P-1	↑	-
 Create Application Menu	P1P-2	↑	-
 Create Application CRUD Submenu	P1P-3	↑	-
 Create option to retrieve the file names in an ascending order	P1P-4	↑	-
 Create CREATE Operation	P1P-8	↑	-
 Create READ Operation	P1P-9	↑	-
 Create UPDATE Operation	P1P-10	↑	-
 Create DELETE Operation	P1P-11	↑	-
 Create SEARCH Operation	P1P-12	↑	-
 Test Menu operations	P1P-13	↑	-
 Test CRUD operations	P1P-14	↑	-



Sprint 1

 Create Specification Document	P1P-1	↑	-
 Create Application Menu	P1P-2	↑	-
 Create Application CRUD Submenu	P1P-3	↑	-
 Create option to retrieve the file names in an ascending order	P1P-4	↑	-

Sprint 2

 Create CREATE Operation	P1P-8	↑	-
 Create READ Operation	P1P-9	↑	-
 Create UPDATE Operation	P1P-10	↑	-
 Create DELETE Operation	P1P-11	↑	-

Sprint 3

 Create SEARCH Operation	P1P-12	↑	-
 Test Menu operations	P1P-13	↑	-
 Test CRUD operations	P1P-14	↑	-

Java Concepts

The implementation of LockedMe.com required the following Java concepts:

- Utilization of `java.util.Scanner` for capturing user input
- Utilization of `System.getProperty` for defining project folder paths
- Utilization of control blocks (loop) such as “FOR” and “WHILE” for menu operations
- Utilization of conditional blocks such as “IF” and “SWITCH” for menu operations
- Utilization of OOPS objects such as classes and encapsulation to separate main flow from directory operations
- Utilization of File Handling for CRUD operations
- Utilization of Try/Catch blocks for exception handling
- Utilization of collections for managing list of files in directory
- Data structures – `ArrayList` to manage directory files
- Sorting Technique – Implementation of `Collection.sort()`, which uses MergeSort for sorting objects

Flow Chart

