

LockedMe.com

Software Requirements Document

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Table of Contents

Introduction	1
Purpose	1
Intended Audience	1
Product Scope	1
Iteration Process	1
Requirements	2
User Personas	2
Alex	2
Jessica	2
User Stories	3
User Acceptance Criteria	3
Workflow	4
UML Class Diagram	4
User Journey; Command-Line Interface	5
Welcome Message, Author and Application Information, Main Menu	5
(1) Display files	5
(2) More Options	5
(3) Add a new file	6
(4) Delete a user file	7
(5) Search a user file	7
(0) Main Menu	8
(exit) Exit the program	8
Other Requirements	9
Non-Functional Requirements	9
Constraints and Assumptions	9
Future Iterations	9

Introduction

Purpose

The main purpose of this document is to collect data and perform analysis to define the details of a software system to digitize the products of *Company Lockers Pvt. Ltd.* based on the requirements elicitation data gathered from relevant sources approved by the stakeholders and concerning the needs of its end-users.

Intended Audience

- **Developers** including UX/UI designers, graphic designers, front-end engineers, backend engineers, database administrators, QA specialists, testers, etc.
- **Project Managers** including product owners and scrum master
- **Marketing Team** including public relations specialists, advertising experts, etc.
- **Company Lockers Managers** including all levels of management and supervision
- **Company Lockers Employees** including technical and non-technical personnel
- **Company Lockers Owner(s)** including the founder(s), CEO, CTO, advisers, and other board members and shareholders.
- **End-Users** users who will end up using the product and services

Product Scope

The scope of this project belongs to *Company Lockers Pvt. Ltd.* and its new software application *LockedMe.com* with the same domain name that has been acquired. The project focuses on the process of digitizing the company's products. The prototype of the application shall be developed and be available to the management team and other stakeholders. All tools and technologies shall be introduced including programming languages, libraries, frameworks, and other software systems. The main repository should be created and become accessible to stakeholders. The design of the user interface shall be approved by the stakeholders before developing a high-fidelity prototype of the application. The software system shall be implemented in an inc

Iteration Process

The first release of the application (prototype) is scheduled to be delivered in 15 working days and two sprints.

- Kick off meeting: discuss the goals, constraints and assumptions
- Sprint week one: design of the data structure and object oriented architecture
- Sprint week two: release of the first prototype via command line interface

Requirements

User Personas



Alex

35 years old, Mechanical Engineer

Alex is single works for a famous company as a senior mechanical engineer. The company has recently started using LockedMe.com software to provide their employees asier access to lockers at work. Safety regulations require all on-site workers to wear special clothes and accessories that sometime cost a lot. Alex thinks using a suitable software can provide convenience to the employees.

Goals and Motivations:

- Safety on the job site
- Convinience and ease of access
- User friendly interface for all workers



Jessica

50 years old, Teacher

Jessica is married and has three children. She has a master's degree in education and psychology. She works as a high school teacher and school faculty. Jessica and her coworkers ordered LockedMe.com software for the students and faculty. She believes that teenagers need to have access to safe and private lockers.

Goals and Motivations:

- Privacy for students and school staff
- Quality and options of software
- Accessability for all students

User Stories

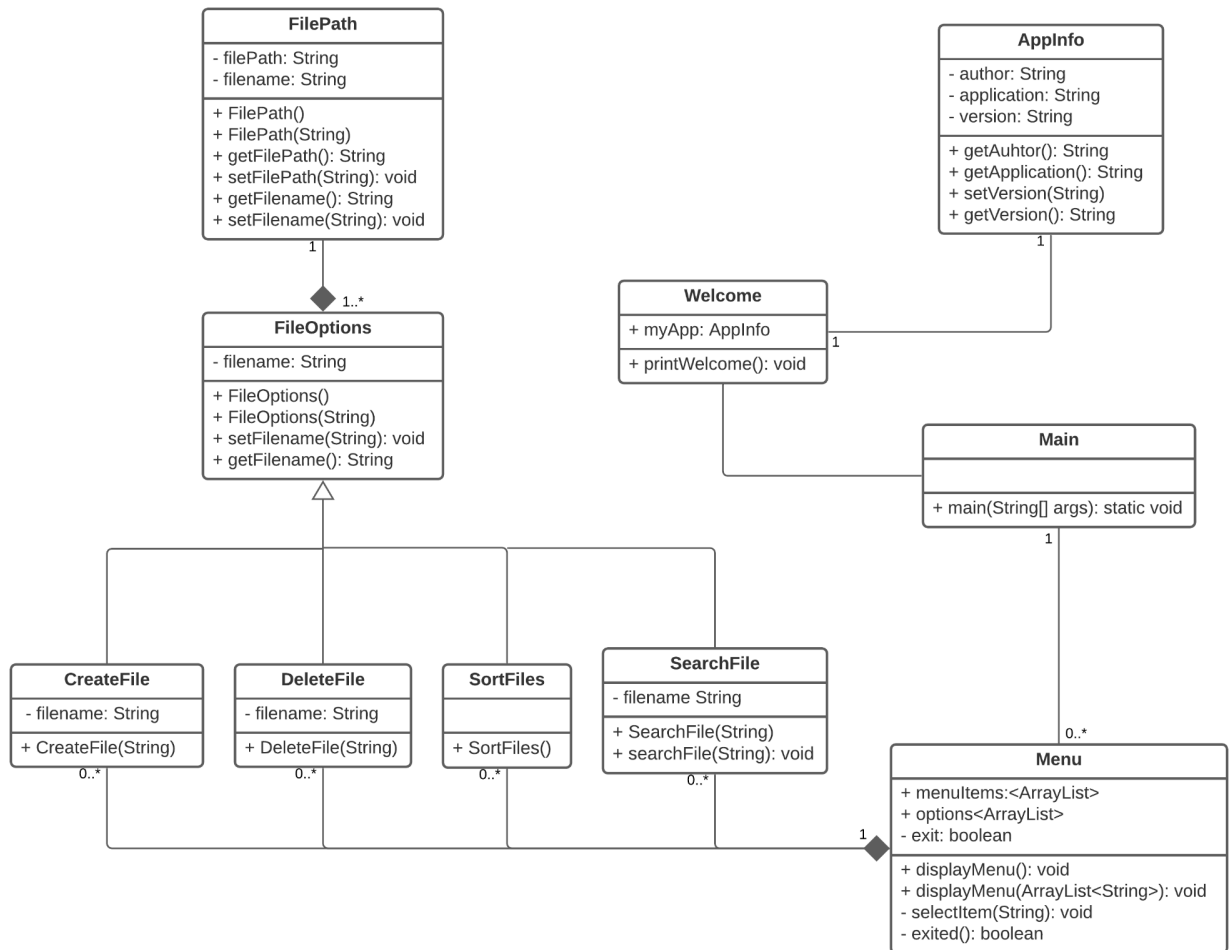
1. As an external user, I want to be able to create, edit and delete files, so that I can access the right information at the right time.
2. As an external user, I want be able to sort the files, so that I can list all the files in ascending alphabetical order.
3. As an external user, I want to be able to search any file in the system, so that I can find any file by their names without a case sensitivity.
4. As an external user, I want to be able to print all the files so that I can track all the changes in the directory.
5. As an external user, I want to be able to navigate easily through the menu so that I can view all the menu otions.
6. As an external user, I want to be able to exit the program anytime so that I can terminate the software safely and securly.

User Acceptance Criteria

- Given any name containing the letter and number, the system shal create a file with that name.
- Given exactly the same name as the user had created, the system shall delete a file that has the same case sensitivity.
- Given non-standard input like integers or boolean, the system shall throw an exception without breaking the flow.
- Given non-existance menu option, the system shall prompt the user to inform they need to retry.
- Given a different path, the system must create file in a different directory other than the root.

Workflow

UML Class Diagram



User Journey; Command-Line Interface

Welcome Message, Author and Application Information, Main Menu

(1) Display files

- Printing all the files in root directory sorting in ascending order

```
Welcome to LockedMe.com Version 1.0
Author: Payam Dowlatyari

*****

*****

(1) Display files
(2) More Options
(exit) Exit the program

Choose from the menu

*****

1
user1.txt
user2.txt
user3.txt
*****
```

(2) More Options

- Printing all the options including add, delete, and search a file

```
(1) Display files
(2) More Options
(exit) Exit the program

Choose from the menu

*****

2
*****

(3) Add a new file
(4) Delete a user file
(5) Search a user file
(0) Main Menu
(exit) Exit the program

Choose an options

*****
```

(3) Add a new file

- Added `user4.txt` to the root directory and printing all the files after that

```
(3) Add a new file
(4) Delete a user file
(5) Search a user file
(0) Main Menu
(exit) Exit the program

Choose an options

*****

3
Enter new file name
user4.txt
File created: user4.txt

*****

(1) Display files
(2) More Options
(exit) Exit the program

Choose from the menu

*****

1
user1.txt
user2.txt
user3.txt
user4.txt
```


(4) Delete a user file

- Deleted `user2.txt` and displaying the files showing `user2.txt` does not exist

```
4
Enter file name
user2.txt
Deleted the file: user2.txt
*****

(1) Display files
(2) More Options
(exit) Exit the program

Choose from the menu

*****

1
user1.txt
user3.txt
user4.txt
```

(5) Search a user file

- Searched `user3.txt` and showing the found message

```
(3) Add a new file
(4) Delete a user file
(5) Search a user file
(0) Main Menu
(exit) Exit the program

Choose an options

*****

5
Enter file to search
user3.txt
user3.txt found
```

- Searched `user5.txt` and showing not found message

```
(3) Add a new file
(4) Delete a user file
(5) Search a user file
(0) Main Menu
(exit) Exit the program
```

Choose an options

```
5
Enter file to search
user5.txt
File Not Found
```

(0) Main Menu

- Navigated back to the main menu

```
(3) Add a new file
(4) Delete a user file
(5) Search a user file
(0) Main Menu
(exit) Exit the program
```

Choose an options

```
0
*****
```

```
(1) Display files
(2) More Options
(exit) Exit the program
```

Choose from the menu

(exit) Exit the program

- Typed `exit` to close the program

```
(1) Display files
(2) More Options
(exit) Exit the program
```

Choose from the menu

```
exit
You have exited. Goodbye!
```

Other Requirements

Non-Functional Requirements

- The application must be implemented with Java and using Eclipse IDE.
- The application must be platform independent and works on different operating systems such as macOS, Windows, and Linux.
- The application should work fast and run smoothly.

Constraints and Assumptions

- There is no graphical user interface (GUI) implemented for the application and the user interface is command line base.
- The application can only support English language.
- User must have access to keyboard for providing their inputs.
- Assuming the files are all in the text (.txt) format.
- Assuming the root directory is available as the main path and users can add, delete, etc. files.

Future Iterations

The system has some potential iteration capacity including

- Implementing new features and functionalities
- Improvement and evolutions of current features
- Periodically testing, bug fixing, and maintenance