LOCKEDME.COM

Diagram

Description automatically generated

**DOCTOR INNOCENT KHANYILE**

**DOCUMENTA0T0ION OF LOCKE0ME0.COM PRO0JECT**

**Programmer Details**

Name: Doctor Innocent Khanyile

Email: [doctorinnocent17@gmail.com](mailto:doctorinnocent17@gmail.com)

Contact: 0663635964

**Problem Statement**

To develop the Application for the Lockedme.com PTY to digitize the application and meet user requirements

**Sprint Development**

**Lockedme.com Objective**

Aims to allow users to be able to interact with the application in terms of adding, removing ,searching files within a directory and have interactive communication between the application and the user.

**Sprint Planning**

|  |  |
| --- | --- |
| **USER STORIES** | **WAYS TO EXCUTE THE TASK** |
| As I user I want to add files | Create short code that will allow user to create  A file from the options provided  Without worrying about case sensitivity |
| As user I want to search files | By using searching methods can achieve the files and check if that file exists |
| As a user I want to delete a file | First check if the file exists  Use method to check case sensivity  Delete file if it exists |
| As a user I want to view file in order | Using List to get files then using sort methods to achieve this |
| As a user I want to exit the application | Develop the conditions to allow user to exit  Whenever they wish to use while loops |
| As a user I want move between business operation and main menu | By making conditions to move around in the code using the if statement and break the current loop statement |
|  |  |
|  |  |

To achieve all the scrum team had to meet to discuss the progress of Locked.com which is a daily scrum that will be at most fifteen minutes daily where each member has been able to check what have they have achieved during the day and what needs to be looked at.

I looked at the operations that need to be performed and the first thing was to put down those operations from there a plan to execute them.

Using sprint development also used sprint retrospective for each member to identify what did they do wrong which most of them achieved their end goal though it required more time to get the user interface .

**Used different Technologies to achieve the plan and progress**

**Trello to show board of Plan and the progress which is a scrum boardGraphical user interface, application

Description automatically generated**

The above document shows details of the plan which consist of requirements to be met and the list that is also complete and user stories that were fulfilled in order to meet the needs of the user.

**Flow Chart of The Application**

Diagram

Description automatically generatedThe flow chart shows the whole process that is done by the application to fulfil all the business operations from the start the program displays the details of the programmer which only occurs at the start of the application and then moves to the main menu depending on the user he/she decides what to do that day. If user is interested in business logic, then the new menu appears which consist of four options which will keep on popping until a user decides to go back to the main menu.

User can then terminate the application only in the main menu of the application.

With this we have been able to meet the requirements of the user which then led to the application being released as a finished product.

Concept used for developing Java

**Programming and Concept Used**

Java have been used as the language for deploying this project and the use of intel j IDE to develop and deploy the application.

**1.Interfaces**

I have applied the concept of interface to my java application which is

Is used to declare business operations then it is implemented by Lockedme

Class which will implement them .

A screenshot of a computer

Description automatically generated

**2.File handling**

I have applied the concept of using files in my application from adding

A file to a directory checking if the file exists or not also deleting files

From directory and retrieving all files in the directory

Text

Description automatically generated

**3.Exceptions Handling**Text

Description automatically generated

I have applied exception from my application in many instances using try and catch and IOEXCEPTIONS specially to handle user input from entering string instead of integer also to catch any exception from the using the throws to catch the exceptions when a file is not found.

**4.Polymorphism**

I have applied polymorphism where an object can take many forms

A screenshot of a computer

Description automatically generated with medium confidence

**5.Sorting**

To list files in order I have used sorting algorithm with arrays

The Arrays. Sort to sort the array.

Text

Description automatically generated

**6.Linear Search**

I have applied linear search in my program where you search a file if it within the directory

Text

Description automatically generated

**7.Collections**

I have applied the use of collections using List to store my files and using the contains method to verify the case sensitivity

Text

Description automatically generated

**8.Scanner**

I have applied the Scanner class to get the user input and use try to make sure the input is an integer not a string

Text

Description automatically generated

**I have also used the endWith()method to verify the file name that is entered if it a txt if not force the user enter again with .txt**

**Text

Description automatically generated**

**Conclusion**

The application can meet the business needs and in terms of user interaction it is user friendly and dynamic for each operation that are taking place. It has been developed with the end in mind that users may enter values that are not aligned with the input required then it helps the user to put valid input. The uniqueness of this application is the ability to work in all conditions that satisfies the user and complete business needs.

**Link to GitHub**

<https://github.com/Drinnocent/LockedMe.comApplication/tree/master/Lockedme/com>