**Virtual key for Repositories**

**LockedMe Application:**

**Content:**

* Project and developer details
* Sprints planned and the tasks achieved in them
* Flowcharts of the application
* Core concepts used in the project
* Links to the GitHub repository to verify the project completion
* Unique Selling Points
* Conclusion

**Project and developer details**

Application is Developed by Kartik Muchakandimath

Git hub Account: <https://github.com/KartikMuchakandimath>

**Sprints planned and the tasks achieved in them:**

|  |  |
| --- | --- |
| **Product backlog (User Story):** | **Story points:** |
| Retrieving the file names in an ascending order. | 5 |
| Option to add user specified file from the application. | 3 |
| Option to delete a user specified file from the application | 3 |
| Option to search a user specified file from the application. | 3 |
| Option to Navigate and close the current execution context and return to the main context | 2 |
| Option to close the application gracefully. | 1 |

We are planning to divide our user stories into 3 sprints:

**Sprint 1:**

Task 1: Analysing the problem.

Task 2: Creating a flow chart.

Task 3: Implementing User Story 1

Task 4: Implementing User Story 2.

**Sprint 2:**

Task 1: Implementing User Story 3

Task 2: Implementing User Story 4.

**Sprint 3:**

Task 1: Implementing User Story 5

Task 2: Implementing User Story 6.

Time box per Sprint is 1 week.

The velocity of the team is 17 story points/3 weeks.

**Algorithms and flowcharts of the application**



Diagram

Description automatically generated

**Core concepts used in the project:**

Implementation concepts

* Exception Handling
* collections
* sorting techniques
* File Handling
* Recursion

**Links to the GitHub repository to verify the project completion:**

**GitHub Repository:** [**https://github.com/KartikMuchakandimath/LockedMe.com-App**](https://github.com/KartikMuchakandimath/LockedMe.com-App)

**Or**

[**https://github.com/KartikMuchakandimath/Lock edMe.com-App.git**](https://github.com/KartikMuchakandimath/Lock%20edMe.com-App.git)

**Unique Selling Points:**

1. The application is designed to keep on running and taking user inputs even after exceptions occur. To terminate the application, appropriate option needs to be selected.
2. The application can take any file/folder name as input. user can specify the relative path, and the application takes care of creating the required folder structure.
3. The application doesn’t restrict user to specify the exact filename to search/delete file/folder. They can specify the starting input, and the program searches all files/folder starting with the value and displays it. The user is then provided the option to select all files
4. The application also allows user to delete folders which are not required.
5. The user is able to seamlessly switch between options or return to previous menu even after any required operation like adding, searching, deleting or retrieving of files is performed.
6. When the option to retrieve files in ascending order is selected, user is displayed with two options of viewing the files.

**Conclusion :**

Further enhancements to the application can be made which may include:

* Conditions to check if user is allowed to delete the file or add the file at the specific locations.
* Asking user to verify if they really want to delete the selected directory if it’s not empty.
* Retrieving files/folders by different criteria like Last Modified, Type, etc.
* Allowing user to append data to the file.