**1. Project and Developer Details:**

**Project Name:** LockedMeApp

**Developer:** Ahamed Moosa

**Company:** Company Lockers Pvt. Ltd.

**2. Sprints Planned and Tasks Achieved:**

**Sprint 1:**

**Task 1:** Display welcome message and main menu options

**Task 2:** Retrieve file names in ascending order

**Task 3:** Add file functionality

**Sprint 2:**

**Task 1:** Delete file functionality

**Task 2:** Search file functionality

**Task 3:** Navigation option to return to the main context

**Task 4:** Option to close the application

**3. Algorithms and Flowcharts:**

**Algorithm:**

1. Start the application.
2. Display the main menu with options for different operations.
3. Wait for user input.
4. If the user selects "Retrieve File Names":

* Retrieve the list of file names from the application.
* Sort the file names in ascending order.
* Display the sorted list of file names.
* Return to the main menu.

1. If the user selects "Add File":

* Prompt the user to enter the name of the file to be added.
* Add the file name to the application.
* Display a success message.
* Return to the main menu.

1. If the user selects "Delete File":

* Prompt the user to enter the name of the file to be deleted.
* Check if the file exists in the application.
* If the file exists, delete it from the application.
* Display a success message.
* Return to the main menu.

1. If the user selects "Search File":

* Prompt the user to enter the name of the file to be searched.
* Search for the file in the application.
* If the file is found, display a success message.
* If the file is not found, display a failure message.
* Return to the main menu.

1. If the user selects "Close Execution Context":

* Close the current execution context and return to the main menu.
* If the user selects "Close Application":
* Close the application.

**Flowchart:**

Delete File

Add File

No

Yes

Failure Msg

Success Msg

No

Yes

Prompt the user to enter the name of the file to be added.

Prompt the user to enter the name of the file to be deleted.

File Exists

Retrieve the list of file names from the application.

Retrieve File Names

Search File

File Found

Prompt the user to enter the name of the file to be searched.

Wait for User Input

**Display the menu to user**

1) Retrieve File Names  
2) Add File  
3) Delete File

4) Search File  
5) Close Application

Search for the file in the application.

Add the file name to the application.

Sort the file names in ascending order.

Display the sorted list of file names.

Display a success message

Delete File

Return to the main menu.

Return to the main menu.

Return to the main menu.

Return to the main menu.

**4. Core Concepts Used in the Project:**

1. Java programming language
2. Object-oriented programming (OOP) principles
3. File handling in Java
4. Exception handling
5. Collections (ArrayList)
6. Sorting techniques (Collections.sort())

**5. GitHub Repository:**

The code for the LockedMeApp prototype can be found in the following GitHub repository: https://github.com/ahamedmoosa1987/LockedMeApp

Please note that the repository may be set to private for security reasons. Please provide appropriate access to the stakeholders for verification.

**6. Conclusion on Enhancing the Application and Defining USPs:**

The development of the LockedMeApp prototype demonstrates the digitization of file management processes. The application provides a user-friendly interface with essential features for file retrieval, addition, deletion, and search. By leveraging Java concepts and core programming techniques, the prototype ensures efficiency, reliability, and performance.

To enhance the application further, some potential improvements can be considered:

1. Implementing additional features like file editing, file metadata display, and folder management.
2. Enhancing the user interface with improved aesthetics and usability.
3. Integrating authentication and access control mechanisms to ensure data security.
4. Optimizing the file retrieval and search operations for large-scale datasets.
5. Providing multi-platform support through mobile applications or web-based interfaces.

The Unique Selling Points (USPs) of the LockedMeApp prototype are:

Simplified File Management: LockedMeApp simplifies the process of managing files by providing intuitive options to retrieve, add, delete, and search files, making file organization effortless.

Efficiency and Performance: The application utilizes sorting techniques and optimized algorithms, ensuring quick and accurate file retrieval and search operations.

User-Friendly Interface: The user interface of LockedMeApp is designed to be user-friendly, allowing users to navigate through options easily and perform file operations seamlessly.

LockedMeApp aims to revolutionize file management by providing a digital solution that enhances productivity and efficiency in managing files. With further enhancements and additions, the application has the potential to become a comprehensive file management tool for individuals and businesses alike.