## **Sprints Planned and Tasks Achieved:**

Sprint 1 (Duration: 5 working days):

Set up the development environment (Eclipse/IntelliJ, Java, Git, GitHub). Create the project structure and initialize the Git repository. Implement the welcome screen with application name and developer details. Display user interface options for interaction.

Sprint 2 (Duration: 5 working days):

Implement the first option to display file names in ascending order. Handle scenarios where the root directory is empty or contains files/folders.

Sprint 3 (Duration: 5 working days):

Implement the second option for business-level operations.

Add functionality to add a user-specified file to the application.

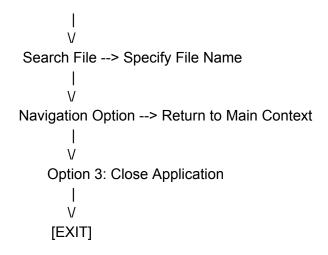
Add functionality to delete a user-specified file from the application.

Add functionality to search a user-specified file from the application.

Add navigation option to return to the main context.

Sprint 4 (Duration: 2 working days):

Implement the third option to close the application. Perform code optimization and ensure exception handling. Prepare for final release.



## Algorithm:

1. Algorithm for retrieving file names in ascending order:

Retrieve the list of files in the root directory. Sort the list of file names in ascending order. Display the sorted list of file names.

2. Algorithm for adding a file:

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

Check if a file with the same name already exists.

If yes, display a message indicating that the file is already present.

If no, create a new file with the specified name in the root directory.

Write the default content ("The file contains confidential information.") to the file.

Display a message indicating that the file has been successfully added.

3. Algorithm for deleting a file:

Prompt the user to enter the name of the file to be deleted.
Check if a file with the specified name exists.
If yes, delete the file from the root directory.
Display a message indicating that the file has been successfully deleted.

If no, display a message indicating that the file is not found.

4. Algorithm for searching a file:

Prompt the user to enter the name of the file to be searched. Check if a file with the specified name exists.

If yes, display a message indicating that the file is present.

If no, display a message indicating that the file is not found.

## **Core Concepts Used in the Project:**

File I/O: Used to interact with files in the file system, such as reading file names, creating files, and deleting files.

Exception Handling: Implemented to handle potential errors and exceptions during file operations and user interactions.

Collections: Utilized to store and manipulate the list of file names.

Sorting Techniques: Applied to sort the list of file names in ascending order.

String Manipulation: Used to compare file names and perform case sensitivity checks.