

FSD Project I

Project and Developer Details:-

This project aims to build a user interaction via a command line system. It was developed by Pranjali Jain using Java Programming Language.

Sprints and Tasks:-

- **Product Backlog:**

1. Create a welcome message with Application message and Developer's name.
2. List all the available files present in sorted manner.
3. A user interface which contains following-
 - a. Addition of a file
 - b. Deletion of a file
 - c. Searching a file
4. Exit
5. Adding a file of user input
6. Delete a file as per user's choice
7. Search for a file

- **Sprint-Task Table:**

Sprints	Tasks	Days
Sprint 1	<ul style="list-style-type: none">• Create welcome screen• Listing all the files in sorted manner• Displaying main menu	2 Days
Sprint 2	<ul style="list-style-type: none">• Addition of a file• Deletion of a file	1 Day
Sprint 3	<ul style="list-style-type: none">• Searching a file	1 Day

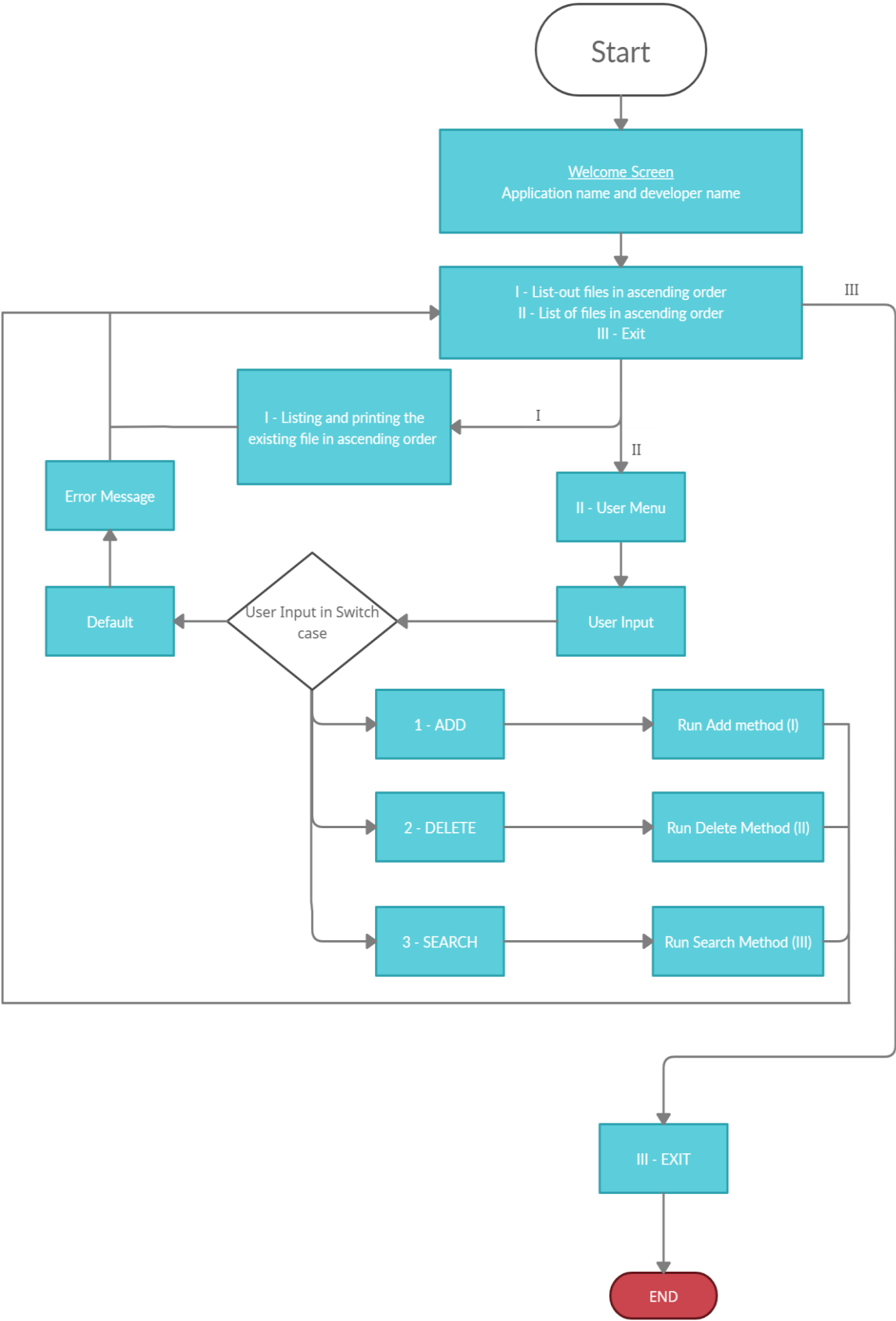
Algorithm Used:-

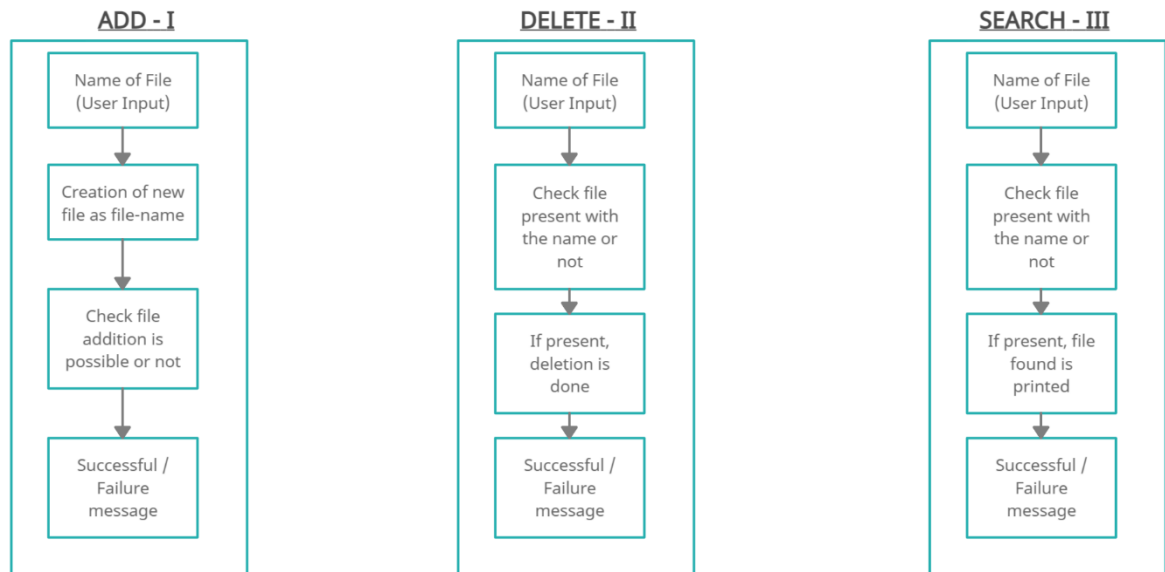
Here, Java programming is used. Two classes are created i.e. Operation and Main.

Operation class contains all the activity which is performed in this project. Addition of a file, deletion of a file, searching a file, sorting list of files are done as separate methods (functions) under Operation class. For sorting the file-names, Collection's inbuilt function **Arrays.sort()** method is used.

Main class features all the user related tasks. All the user input and decision need to be taken as input from user id done here. This is the main class where the program will start the execution.

Flow Chart:-





Core Concept Used:-

- **Object-Oriented** – Used to create object of class for manipulation of files.
- **Collections** – Array collection is used for sorting the file names present
- **Exception Handling** – Used to catch problems caught while execution of program.
- **I/O and file** – I/O used for taking user input and displaying the outcomes. File is used to create, delete, search and display the files.

Project link (Git Link) - <https://github.com/Pranjal3197/FSDProject-1.git>

Submitted by:-

Pranjal Jain

FSD batch