

## PROJECT DETAILS

**PROJECT name** - Phase 1 Full Stack Developer  
**Developed By** - Rohith V V  
**Trainer** - Virendra Sharma

## SPRINTS PLANNED AND TASKS ACHIEVED

### Backlog

#### Product Backlog

Priority	Story Name	Sprint	Sprint Code Name	Estimated Effort	Story Status	Story Status Value 2
1	add file	1	application development	12	Done	9
1	search files	1	application development	10	Done	9
2	delete files	1	application development	10	Done	9
3	test for exception	2	test application	15	Done	9
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4 Count				Sum	47	

### Sprints overview

#### Sprints

Sprint Number	Code Name	Start Date	Start	Active
1	application development	Feb 15	Start	<input type="checkbox"/>
2	test application	Mar 4	Start	<input type="checkbox"/>
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#### checklist tasks

##### sprint 1

- ☒ add-file
- ☒ delete-file
- ☒ search-file
- ☒ menu-display

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##### sprint 2

- ☒ invalid input check

## **ALGORITHM**

### **1. MENU(for base\_menu and also modify\_file menu)**

- Run in a loop till user wants .
- Display the product name and details.
- Give the set of options for user to choose.
- Take the integer user input.
- If user inputs invalid message tell user to give valid input.
- Call the relevant methods as per the choice.

### **2. DISPLAY FILES**

- Check if the directory exists or not
- If it exists,
  - Store the names of files in an array.
  - Sort the array.
  - Using for loop display the contents of the array.
- If it does not exists,
  - Display that the directory does not exists.

### **3. SEARCH A FILE**

- Check if the directory exists or not
- If it exists,
  - Take user input for the file name to be searched(with extension).
  - Store the names of files in an array.
  - Using for loop match the filename to the array elements.
  - Display FILE FOUND if file is present, else display FILE NOT FOUND.
- If it does not exists,
  - Display that the directory does not exists.

### **4. DELETE A FILE**

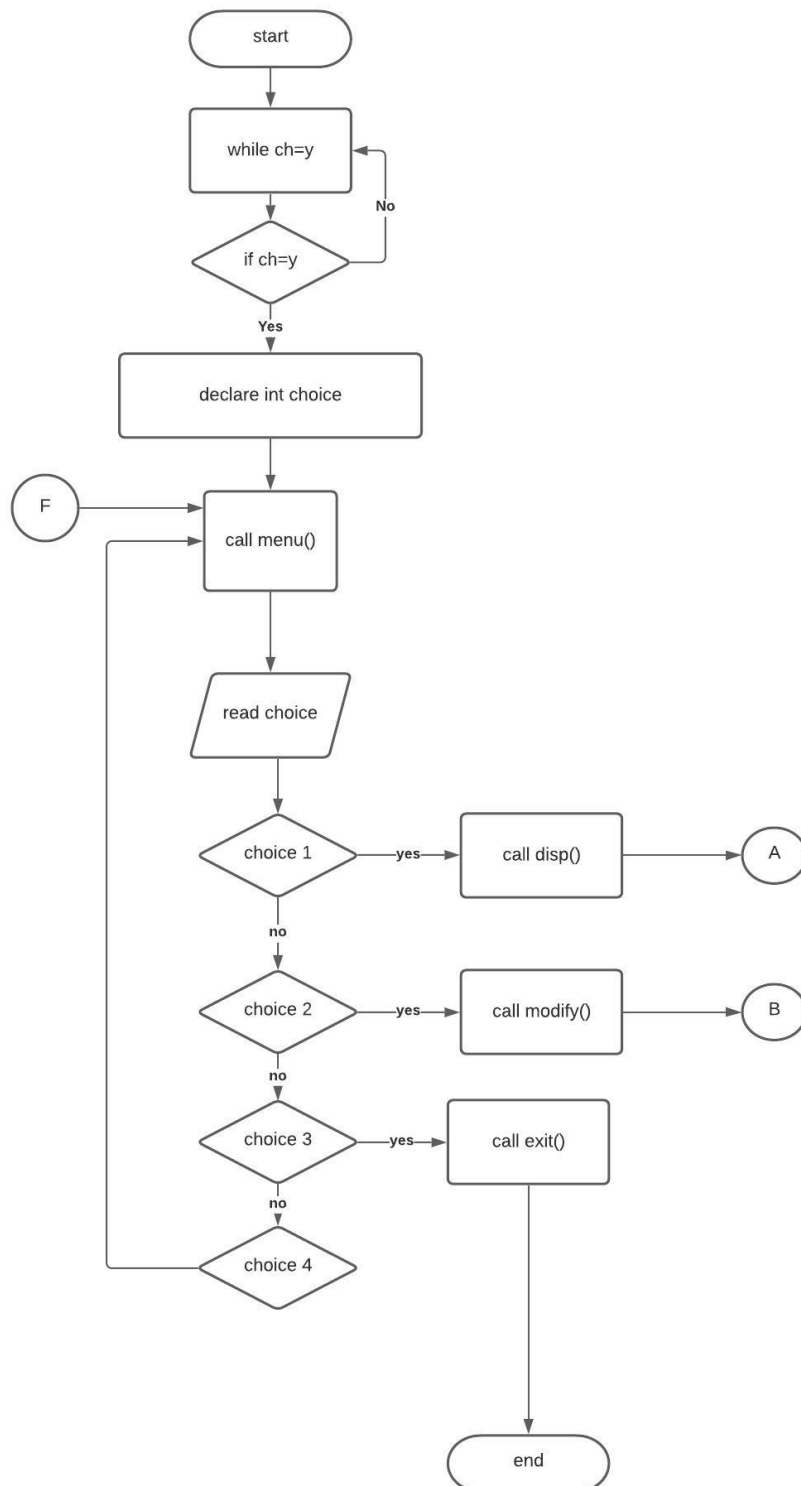
- Check if the directory exists or not
- If it exists,
  - Take user input for the file name to be deleted(with extension).
  - Store the names of files in an array.
  - Using for loop match the filename to the array elements.
  - If file is present delete the file and display FILE DELETED, else display FILE NOT FOUND.
- If it does not exists,
  - Display that the directory does not exists.

### **5. ADD A NEW FILE**

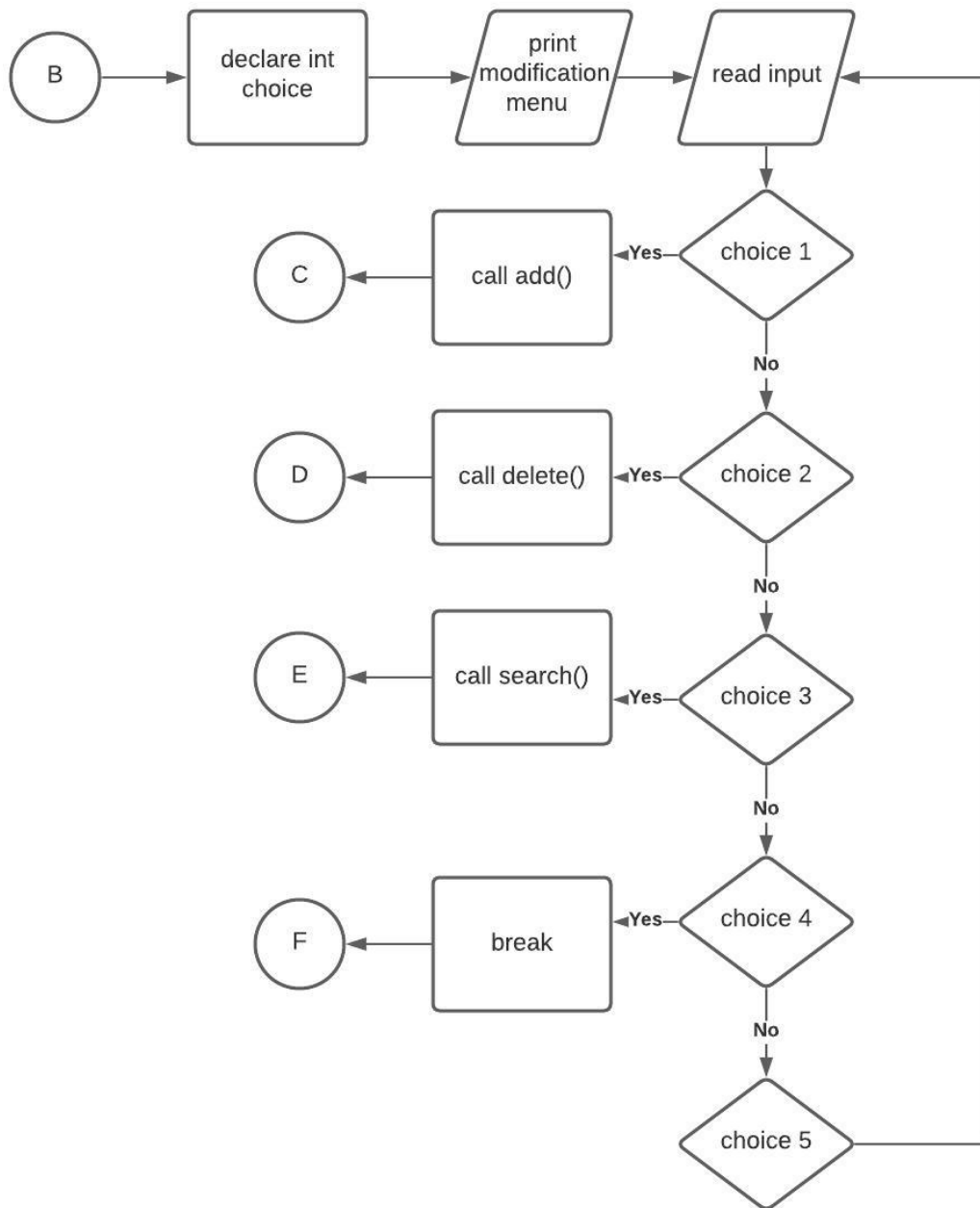
- Check if the directory exists or not
- If it exists,
  - Take user input for the file name to be added.
  - If extension is not given, add extension (.txt).
  - Using for loop check if the filename already exists or not.
  - If file is present display FILE ALREADY EXISTS.
  - If file is not present Create a file with the user specified name and display FILE CREATED.
- If it does not exists,
  - Display that the directory does not exists.

## FLOWCHART

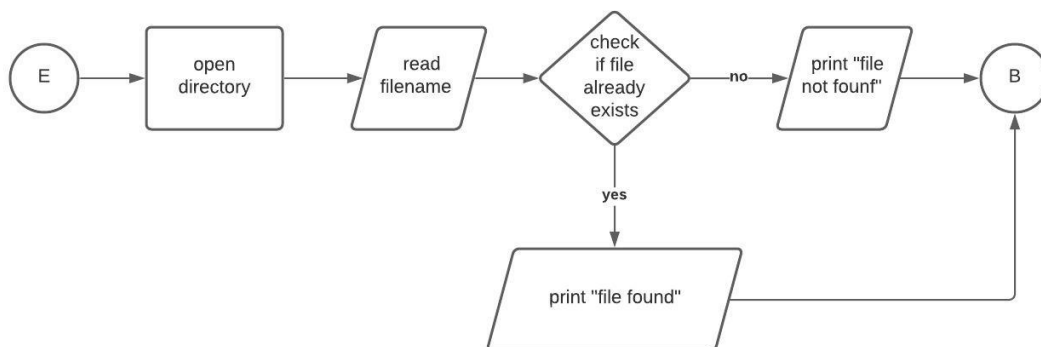
### MENU



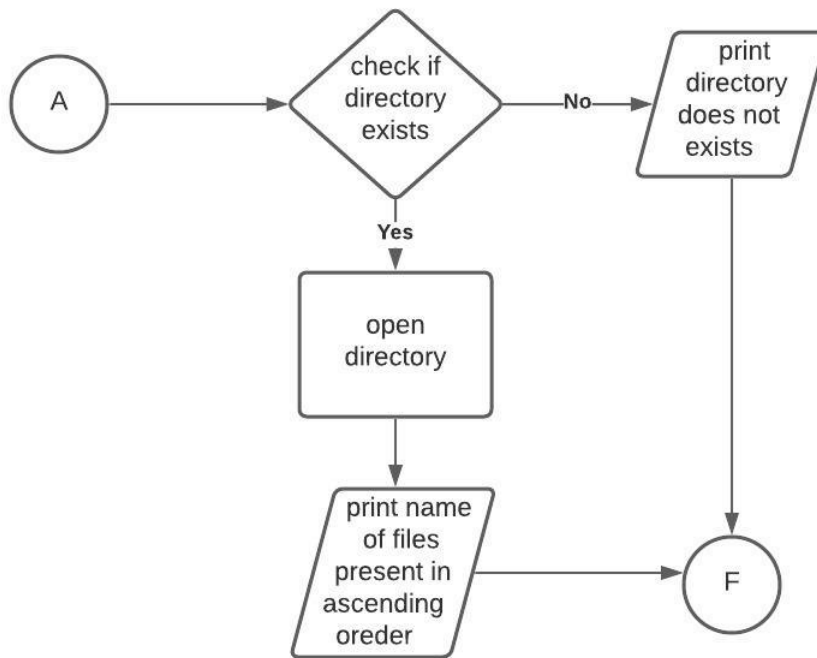
## FILE MODIFICATION MENU



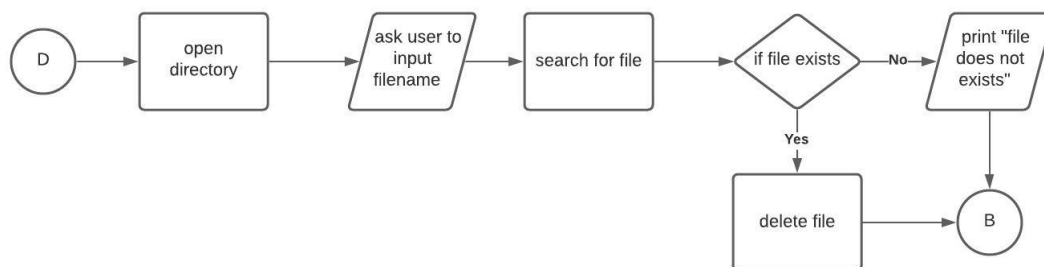
## SEARCH A FILE



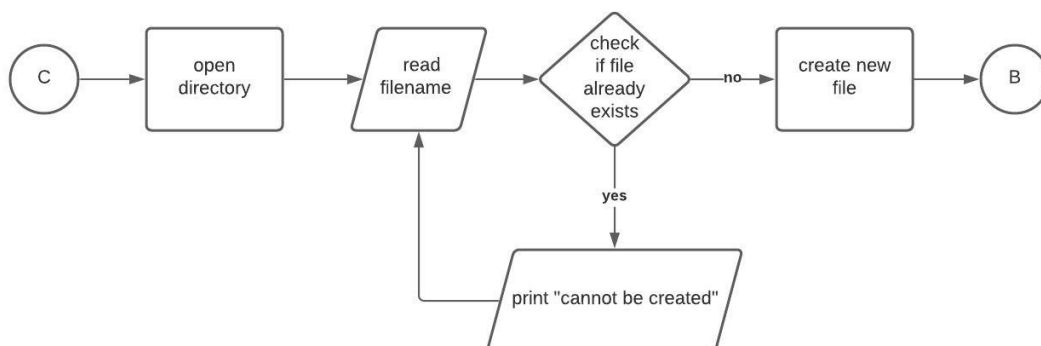
## DISPLAY FILE



## DELETE FILE



## ADD NEW FILE



### **CORE CONCEPTS USED**

1. File Handling.
2. Data Structures -Arrays.
3. Regular Expressions.
4. Exception Handling.
5. Loops- for,do..while.
6. Collection- Wrapper.

### **LINK OF GITHUB REPOSITORY**

**[https://github.com/Rohithvv98/RohithVV\\_Phase\\_1\\_Trainer\\_Virendra\\_Sharma.git](https://github.com/Rohithvv98/RohithVV_Phase_1_Trainer_Virendra_Sharma.git)**

### **CONCLUSION**

1. ENHANCING THE APPLICATION : A better UI can be implemented in the near future with added functionalities. Users can also be categorized and given specific functionalities according to the category/role. A Login system can also be implemented.
2. UNIQUE SELLING POINT(s) :
  - > The program does not throw any exceptions if invalid input is given by user.
  - > If the user does not specify the file type while creating new file then set default file type to "txt".