

LockedMe Java program

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Table of Contents

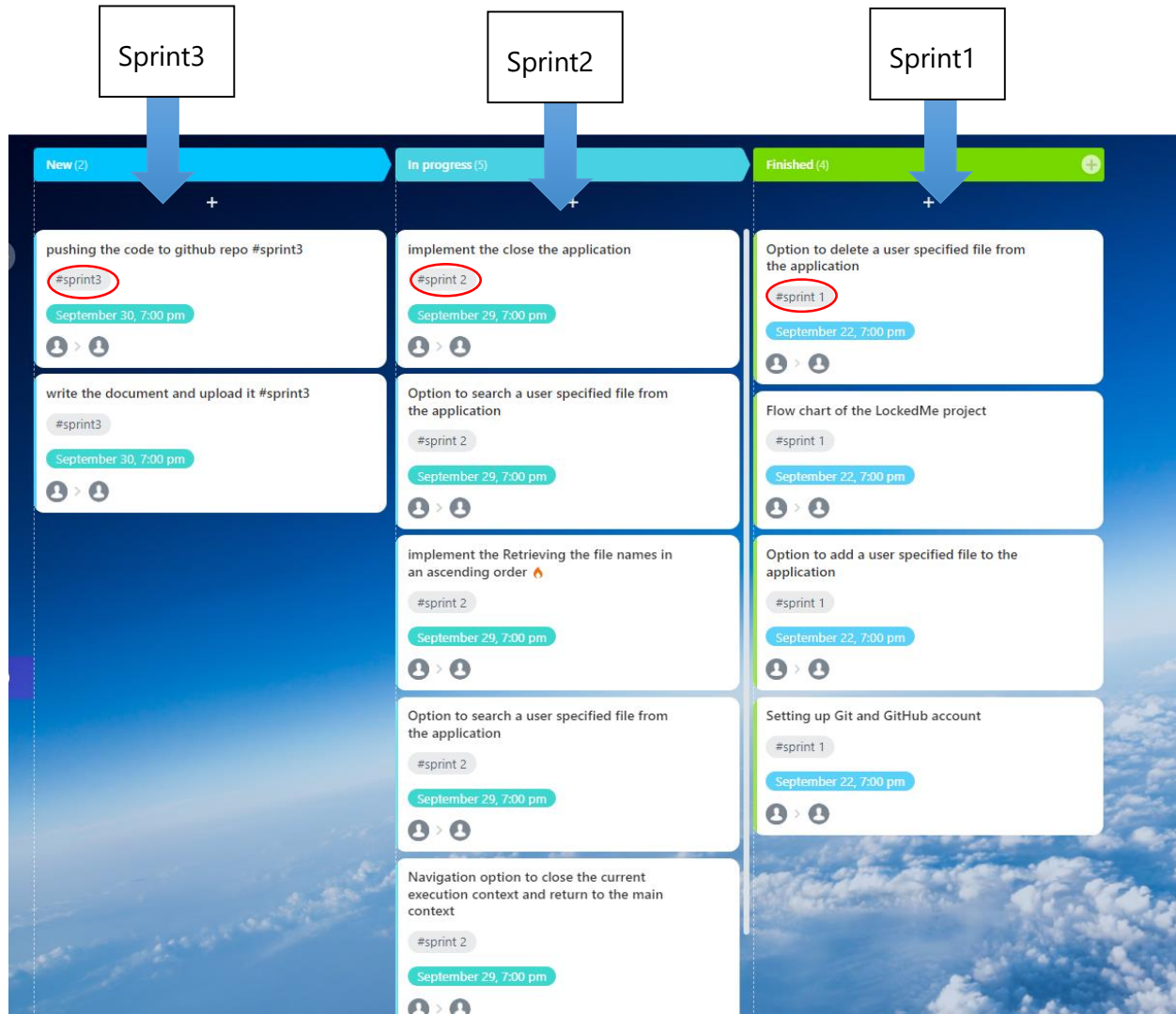
Core concepts used in the project.....	4
Sprints planning and Task.....	5
Flow chart.....	6
Implement the project code	7
1- Creating a new project	7
2- Create class <code>main.java</code> :.....	7
3- Create class <code>handlingOption.java</code>	8
Git and pushing code to GitHub Repository	13
1. create a new repository in GitHub website	13
2. Initializin git.....	13
3. Add the file to the new local repository	13
4. Commit the files staged in local repository	13
5. Add the remote repository's URL from GitHub using.....	13
6. Push the code in the local repository to GitHub using.....	13
7. GitHub page to access the source code.....	13
screenshot of the project.....	14
1. welcome screen and retrieving all files:	14
2. Chose display file operation menu and create new file name test2:.....	14
4. Create file with existing name.....	15
5. SEARCH:.....	15
6. delete and test with case sensitive :	16
7. Return to previous menu and exit the program.....	16
References and tools	17
Tools	17
References	17

Core concepts used in the project

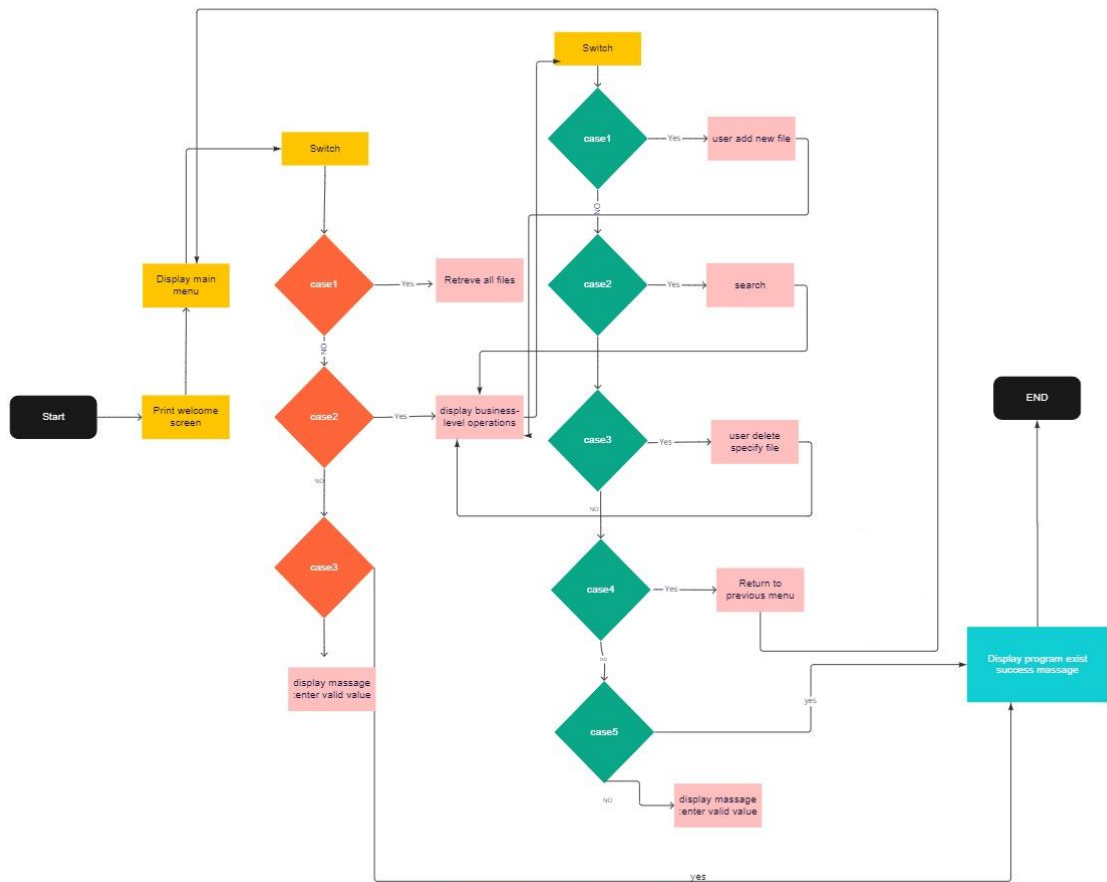
- OOPs Concepts
 - Collections
 - Exception Handling
 - Java File Handling,
 - Sorting
 - Flow Control
 - Java Conditions and loop
 - Java Arrays
 - Java Methods
 - Java Classes.
-

Sprints planning and Task

The project is planned to be completed in 3 sprints as below:



Flow chart



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Implement the project code

1- **Creating a new project** :For these project I use the STS (Spring Tool Suite) to create the Java program:

Step 1: Open the Spring Tool Suite.

Step 2: Click on the File menu -> New -> JAVA Project

It shows the New Java Project wizard. On the first page –

1. Enter the Project Name: lockedMeProject
2. Select the Java Runtime Environment (JRE) or leave it at the default
3. Select the Project Layout which determines whether there would be a separate folder for the source codes and class files. The recommended option is to create separate folders for sources and class files.

Step 3: Click finish

2- **Create a new class** main.java :

- contain the main method:

```
package lockedMeProject;

public class main {
    public static void main(String[] args) {

        handlingOption bo = new handlingOption();
        System.out.println("-----\n \n"+
            " Wellcome LockedMe.com \n " +
            "This application developed by Amal Alyahya \n \n" +
            "-----\n");
        bo.dispalyMainMenu();

    }
}
```

3- Create new class: handlingOption.java

```
package lockedMeProject;

import java.io.File;
import java.io.IOException;
import java.util.ArrayList;
import java.util.Arrays;
import java.util.InputMismatchException;
import java.util.List;
import java.util.Scanner;

public class handlingOption {

    Scanner sc= new Scanner(System.in);
    public final static String ROOT_DIRECTORY_PATH="./files/";

    public static void displayMainMenu()
    {
        try {
            String msgPrint=
                "\n \n please enter your chois number :\n \n" +
                "1-Retrieving the file\n"+
                "2-Display File operations menu \n"+
                "3-Exit the application";

            System.out.println(msgPrint);
            Scanner sc= new Scanner(System.in);

            int option=sc.nextInt();

            switch (option) {

                case 1:
                    retrieveAllFiles();
                    break;

                case 2:
                    displayMenu();
                    break;

                case 3:
                    System.out.println("the porgram is EXIT");
            }
        }
    }
}
```



```

System.exit(0);

        break;

    default :
        System.out.println("PLEAS ENTER VAID OPTION NUMBER");

    }} catch (InputMismatchException e)

{

    System.out.println("PLEAS ENTER VAID OPTION  \n");
    dispalyMainMenu();

}

    }

// Retrieve all files
public static void retrieveAllFiles() {

    File folder = new File(ROOT_DIRECTORY_PATH);
    File[] listOfFiles = folder.listFiles();
    if (listOfFiles != null && listOfFiles.length > 0) {
System.out.println("The file in directory : \n "+"-----" );
        for (int i = 0; i < listOfFiles.length; i++) {
            if (listOfFiles[i].isFile()) {
                System.out.println("File :" + listOfFiles[i].getName());
            } else if (listOfFiles[i].isDirectory()) {
                System.out.println("Directory " + listOfFiles[i].getName());
            }
        }
    }else{
        System.out.println("---- Empty Directory ---");
    }
    dispalyMainMenu();
}

public static void dispalyMenu()

{

    try{
        String s= "1-Add file to the Directory \n"+
            "2-Search file from the in Directory\n" +
            "3-Delete file from the Directory\n"+
            "4-Return to main menu \n"+
            "5-Exit file from the application \n";

        System.out.println(s);
    }
}

```

```

Scanner sc= new Scanner(System.in);
String fileName;
int option=sc.nextInt();

    switch (option) {

        case 1:
            System.out.println("please enter the file name: \n");
            fileName=sc.next();
            creatFile(fileName);
            break;

        case 2:
            System.out.println("please enter the file name are you want to search: \n");
            fileName=sc.next();
            findFile( fileName);
            dispalyMenu();
            break;

        case 3:
            System.out.println("please enter the file name to delete: \n");
            fileName=sc.next();
            deleteFile(fileName);

            break;

        case 4:
            dispalyMainMenu();
            break;

        case 5:
            System.out.println("the porgram is EXIT");
            System.exit(0);
            break;
        default :
            System.out.println("PLEAS ENTER VAID OPTION NUMBER \n");
            System.exit(0);

    }
} catch (InputMismatchException e)
    {

        System.out.println("PLEAS ENTER VAID OPTION NUMBER \n");
        dispalyMenu();

    }

}

```

```

// delete function
public static void deleteFile(String name)
{
    boolean isExist=false;
    try {
        File folder = new File(ROOT_DIRECTORY_PATH);
        File[] Files = folder.listFiles();
        for(File fileEntry : Files) {
            //System.out.println(fileEntry.getName());
            if(fileEntry.isFile()) {
                if (fileEntry.getName().equals(name+".txt")) {
                    isExist=true;
                    fileEntry.delete();
                }
            }
        }
        if(isExist) {
            System.out.println("File is delete \n");
            dispalyMenu();
        }
        else{
            System.out.println("File not found or check the case
sensitivity\n");
            dispalyMenu();
        }
    } catch (Exception e) {
        System.out.println("An error occurred. \n");
        e.printStackTrace();
        dispalyMenu();
    }
}

```

```

// search function
public static void findFile(String name)
{
    boolean isExist=false;
    try {
        File folder = new File(ROOT_DIRECTORY_PATH);
        File[] Files = folder.listFiles();
        for(File fileEntry : Files) {
            if(fileEntry.isFile()) {
                if (fileEntry.getName().equals(name+".txt")) {
                    isExist=true;
                }
            }
        }
        if(isExist) {
            System.out.println("File is existed \n");
        }
        else{
            System.out.println("File is not existed in the
directory\n");
        }
    } catch (Exception e) {
        System.out.println("An error occurred. \n");
        e.printStackTrace();
        displayMenu();
    }
}
}

```

Git and pushing code to GitHub Repository

1. create a new repository in GitHub website

in my case, the name of repo is : LockedMeProject, and Fill up all the required detail .

2. Initializin git

select my project & open the terminal in my project's root directory, by use : **"git init"** command create a new empty repository or directory consisting of files with the hidden directory. '.git' is created at the top level of your project, which places all of the revision information in one place.

3. Add the file to the new local repository

- Use git add . to add all the files to the given folder.
- Use git status to view all the files which are going to be staged to the first commit.

4. Commit the files staged in local repository

- create a commit message by: git commit -m 'the message', which adds the change to the local repository.

5. Add the remote repository's URL from GitHub using

- git remote add origin <https://github.com/Amal-A-Y/LockedMeProject.git>

6. Push the code in the local repository to GitHub using

- git push -u origin master

7. GitHub page to access the source code

- <https://github.com/Amal-A-Y/LockedMeProject.git>

screenshot of the project

1. welcome screen and retrieving all files:

```
main [Java Application] C:\Program Files\Java\jre1.8.0_311\bin\javaw.exe (Sep 26, 2022, 11:
-----

Wellcome LockedMe.com
This application developed by Amal Alyahya

-----

please enter your chois number :

1-Retrieving the file
2-Display File operations menu
3-Exit the application
1
The file in directory :
-----
File :aaa.txt
File :aba.txt
File :abb.txt
File :abc.txt
File :amall1.txt
File :amal2.txt
File :bbbb.txt
File :sds.txt

please enter your chois number :

1-Retrieving the file
2-Display File operations menu
3-Exit the application
```

2. Chose display file operation menu and create new file name test2:

```
please enter your chois number :

1-Retrieving the file
2-Display File operations menu
3-Exit the application
2
1-Add file to the Directory
2-Search file from the in Directory
3-Delete file from the Directory
4-Return to main menu
5-Exit file from the application

1
please enter the file name:
test2
File created: test2.txt
```

4. Create file with existing name

```
1-Add file to the Directory
2-Search file from the in Directory
3-Delete file from the Directory
4-Return to main menu
5-Exit file from the application
```

```
1
please enter the file name:
```

```
test1
File already exists.
```

5. SEARCH:

1. By file is exist
2. Enter INVALID choice
3. by file not exist
4. test search by case sensitive

```
^
please enter the file name are you want to search:
```

```
test2
File is existed
```

1.

```
1-Add file to the Directory
2-Search file from the in Directory
3-Delete file from the Directory
4-Return to main menu
5-Exit file from the application
```

```
TEST2
PLEAS ENTER FAID OPTION NUMBER
```

2.

```
1-Add file to the Directory
2-Search file from the in Directory
3-Delete file from the Directory
4-Return to main menu
5-Exit file from the application
```

```
2
please enter the file name are you want to search:
```

```
Test2
File is not existed in the directory
```

3.

```
1-Add file to the Directory
2-Search file from the in Directory
3-Delete file from the Directory
4-Return to main menu
5-Exit file from the application
```

```
2
please enter the file name are you want to search:
```

```
asd
File is not existed in the directory
```

4.

6. delete and test with case sensitive :

```
1-Add file to the Directory
2-Search file from the in Directory
3-Delete file from the Directory
4-Return to main menu
5-Exit file from the application
```

```
3
please enter the file name to delete:
```

```
Test1
File not found or check the case sensitivity
```

```
1-Add file to the Directory
2-Search file from the in Directory
3-Delete file from the Directory
4-Return to main menu
5-Exit file from the application
```

```
3
please enter the file name to delete:
```

```
test1
File is delete
```

7. Return to previous menu and exit the program

```
1-Add file to the Directory
2-Search file from the in Directory
3-Delete file from the Directory
4-Return to main menu
5-Exit file from the application
```

```
4

please enter your chois number :
```

```
1-Retrieving the file
2-Display File operations menu
3-Exit the application
```

```
3
the porgram is EXIT
```


References and tools

Tools

<https://miro.com>

<https://www.bitrix24.com>

References

<https://stackoverflow.com>

<https://www.w3schools.com>

My Github repo

<https://github.com/Amal-A-Y/LockedMeProject>