**Simplilearn Phase-1 Project**

**Developer Details:**

Developer Name: Vodthala Avinash Goud

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Date:11th March 2022

**Objective:**

To build an application where user can retrieve files and perform operations like add file, delete file and search file.

**Features:**

Using our application as a user you can add files, delete files, search files and also can retrieve files.

The retrieved files are displayed in ascending order.

**User Interaction:**

1. User can Retrieve files from the existing directory by selecting option 1 in the main menu.

2. By selecting option 2 user will get the following options:

1. Add File
2. Delete File
3. Search File
4. Main Menu

3. By selecting the option 3 in main menu user can close the Application.

**Sprint Planning:**

Number of Sprints Planned: 3

Duration of 1 sprint = 7 days

The following are the sprint details:

1. Sprint 1:

* Collected requirements
* prepared use case diagram and flow chart diagram.
* Added Developer details and Main Menu

1. Sprint 2: Added Business level Operations
2. Sprint 3: Testing the Application by performing business level operations.

**Java Concepts used:**

File Handling, Exception Handling, for loop, Lists, Arrays, Scanner, Strings.

**Algorithms used:**

Linear Search

**Tools Used:**

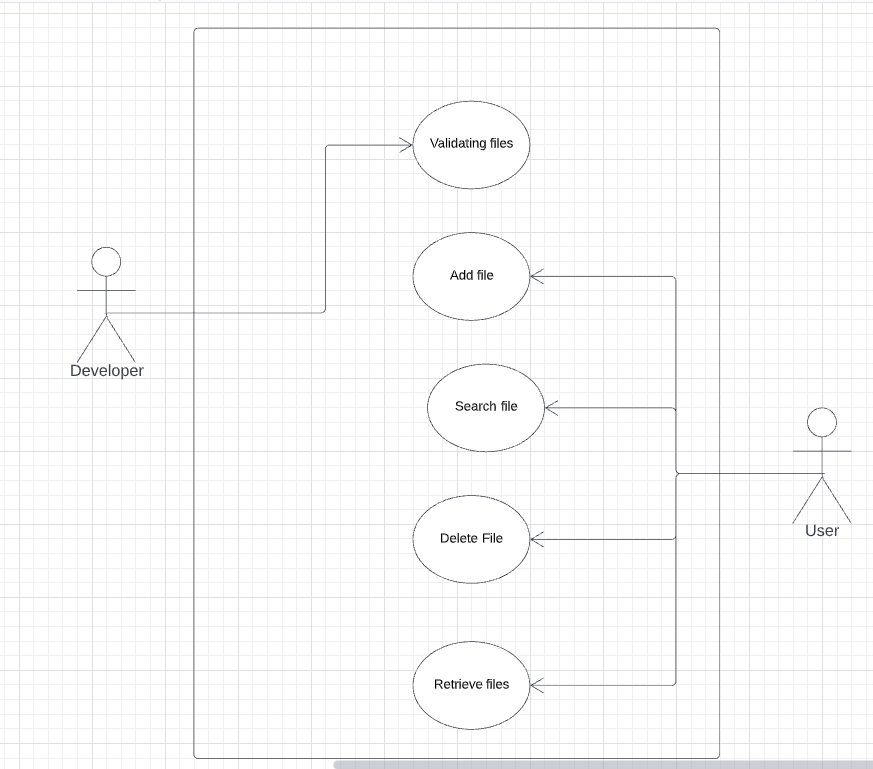
Eclipse, GitHub, Lucid app(for use case diagram and flow chart)

**Programming Languages:**

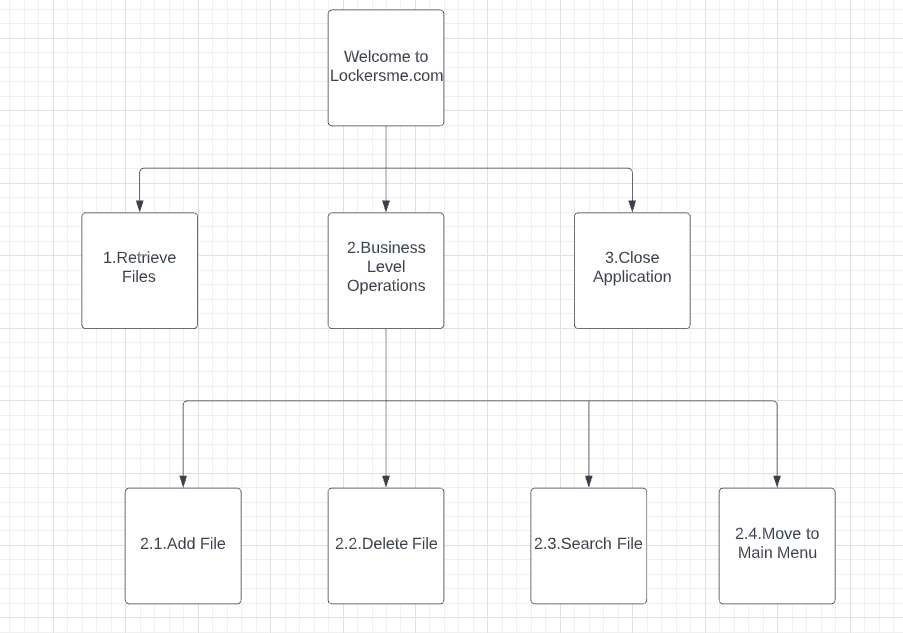
Java

**Diagrams:**

**1.Use case diagram:**



**2.Flow Chart:**



**Source code:**

**1. Locker.me:** Developer details and main menu is displayed here.

package com.simplilearn.phase1\_project;

import java.io.IOException;

public class LockerMe {

void welcome(){

System.*out*.println("Welcome to LockersMe.com");

System.*out*.println("Developer Name: V Avinash ");

System.*out*.println("EmailMe@: avinashgoud98765@gmail.com");

System.*out*.println();

System.*out*.println();

}

public static void main(String[] args) throws IOException {

LockerMe lockerMe = new LockerMe();

lockerMe.welcome();

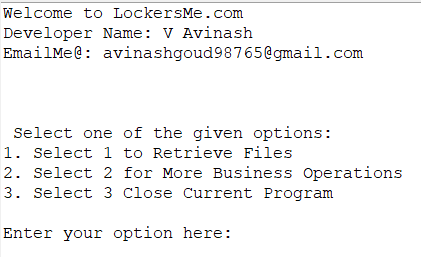
OptionOne opt = new OptionOne();

opt.optionOne();

}

}

**o/p:**



**2.OptionOne:** This code will display Main menu

package com.simplilearn.phase1\_project;

import java.io.IOException;

import java.util.InputMismatchException;

import java.util.Scanner;

public class OptionOne {

void optionOne() throws IOException, InputMismatchException{

System.out.println("1. Select 1 to Retrieve Files");

System.out.println("2. Select 2 for More Business Operations");

System.out.println("3. Select 3 Close Current Program");

System.out.println();

int input1 = 0;

while(true){

Scanner scanner = new Scanner(System.in);

boolean a = true;

while(a){

try{

System.out.println("Enter your option here:");

input1 = scanner.nextInt();

a=false;

}catch (InputMismatchException e) {

System.out.println("Invalid Input ");

scanner.next();

}

}

if(input1==1)

{

RetrieveFiles ret = new RetrieveFiles();

ret.retrieve();

}

else if(input1==2){

OptionTwo opt2 = new OptionTwo();

opt2.optionTwo();

}

else if(input1 == 3){

System.out.println("Program is Closed!! Start Again");

System.out.println();

}

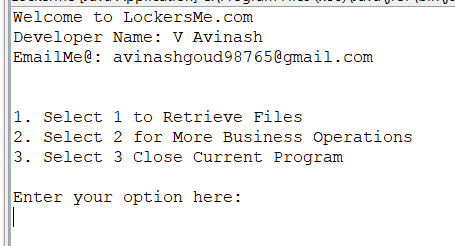
break;

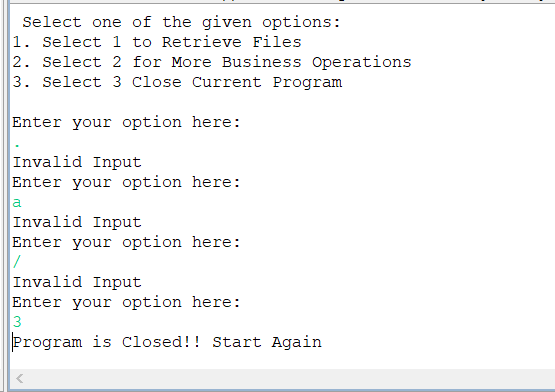
}

}

}

**o/p:**

**a.**

**b.**

**3. Add File:** Adds file specified by the user

package com.simplilearn.phase1\_project;

import java.io.File;

import java.io.IOException;

import java.util.Scanner;

public class AddFile {

void addFile() throws IOException{

System.out.println("Enter the file name:");

Scanner sc1 = new Scanner(System.in);

String fileName = sc1.nextLine();

File file = new File("C://Users/hp/Desktop/avi/Java\_Home/Phase1\_project/ABC/"+fileName);

boolean isFileCreated = false;

try {

isFileCreated = file.createNewFile();

} catch (IOException e) {

// TODO Auto-generated catch block

e.printStackTrace();

}

if(isFileCreated){

System.out.println(fileName+" file is created");

}else {

System.out.println(fileName+" file already exists");

}

/\*This is to go to main menu after add operation is performed

\* System.out.println("Returing to Main Menu");

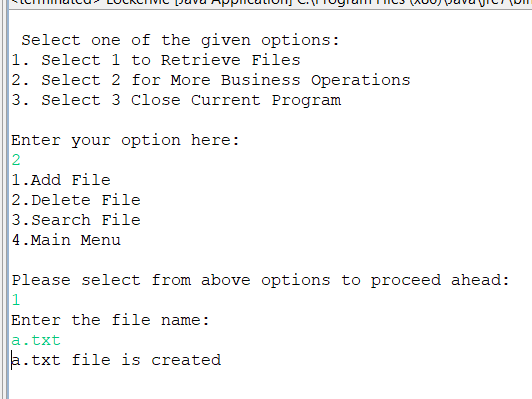
OptionOne opt = new OptionOne();

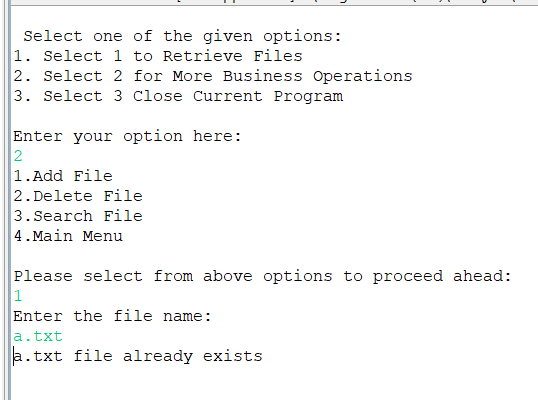
opt.optionOne();\*/

}

}

**o/p:**

a.

b.

**4. Delete File:** Deletes file specified by the user through console

package com.simplilearn.phase1\_project;

import java.io.File;

import java.io.IOException;

import java.util.Scanner;

public class DeleteFile {

void deleteFiles() throws IOException{

Scanner sc = new Scanner(System.in);

System.out.println("Enter file name to be deleted: ");

String fileName = sc.nextLine();

File directory = new File("C://Users/hp/Desktop/avi/Java\_Home/Phase1\_project/ABC/");

File file = new File("C://Users/hp/Desktop/avi/Java\_Home/Phase1\_project/ABC//"+fileName);

String[] flist = directory.list();

int flag = 0;

if (flist == null) {

System.out.println("The Directory is Empty!!");

}else {

for (int i = 0; i < flist.length; i++) {

String file1= flist[i];

if (file1.equals(fileName)) {

file.delete();

flag = 1;

System.out.println(fileName+" file is deleted");

}

}

}

if (flag == 0) {

System.out.println("File Not Found!!");

}

/\*This is to go to main menu after Delete operation is performed

\* System.out.println("Returning to Main Menu");

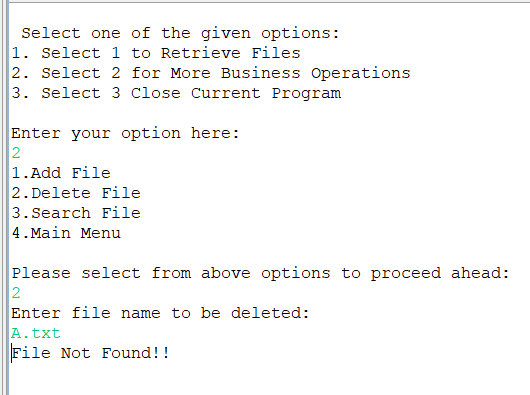
OptionOne opt = new OptionOne();

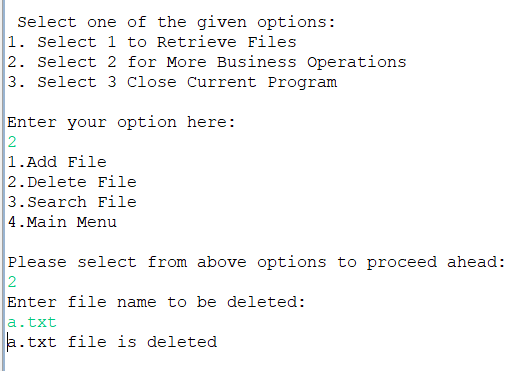
opt.optionOne();\*/

}

}

**o/p:**

a.

b.

**5.Search File:** Search the file requested by user

package com.simplilearn.phase1\_project;

import java.io.File;

import java.io.IOException;

import java.util.Scanner;

public class SearchFile {

void searchFile() throws IOException{

System.out.println("Enter file name to begin search: ");

Scanner scanner = new Scanner(System.in);

String filename = scanner.nextLine();

File directory = new File("C://Users/hp/Desktop/avi/Java\_Home/Phase1\_project/ABC/");

String[] flist = directory.list();

int flag = 0;

if (flist == null) {

System.out.println("The Directory is Empty!!");

}else {

for (int i = 0; i < flist.length; i++) {

String file1= flist[i];

if (file1.equals(filename)) {

System.out.println(filename + " file is found");

flag = 1;

}

}

}

if (flag == 0) {

System.out.println("File Not Found!!");

}

/\*This is to go to main menu after search operation is performed

\* System.out.println("Returning to Main Menu");

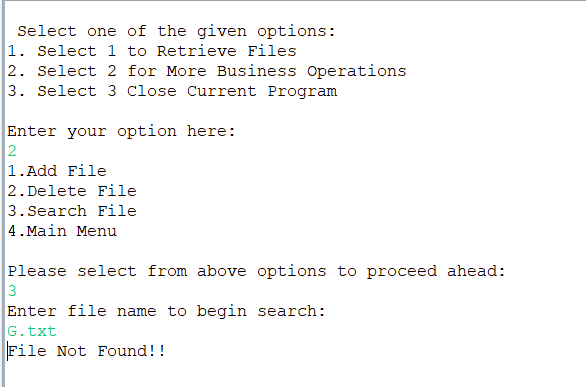
OptionOne opt = new OptionOne();

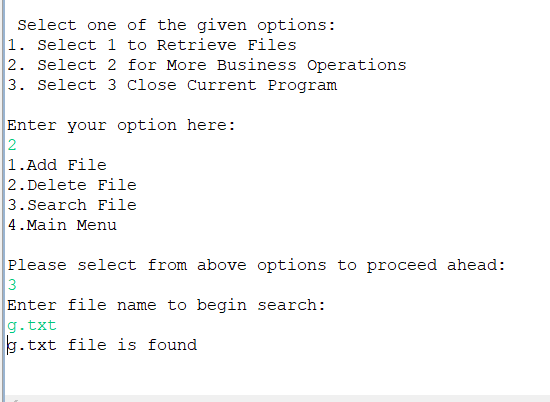
opt.optionOne();\*/

}

}

**o/p:**

a.

b.

**6.Retrieve File:** Retrieve the files existed in the directory

package com.simplilearn.phase1\_project;

import java.io.File;

import java.io.IOException;

import java.util.Arrays;

public class RetrieveFiles {

void retrieve() throws IOException{

File folder = new File("C://Users/hp/Desktop/avi/Java\_Home/Phase1\_project/ABC/");

if(folder.isDirectory())

{

File[] fileList = folder.listFiles();

Arrays.sort(fileList);

System.out.println("Total number of files and their names are listed below: ");

System.out.println("\nTotal number of items present in the directory: " + fileList.length );

System.out.println("");

if(fileList.length==0){

System.out.println("Folder is empty!! Please add files");

}

for(File file:fileList)

{

System.out.println(file.getName());

}

}

/\*This is to go to main menu after retrieve operation is performed

\* System.out.println("");

System.out.println("Please select one of the option to proceed further");

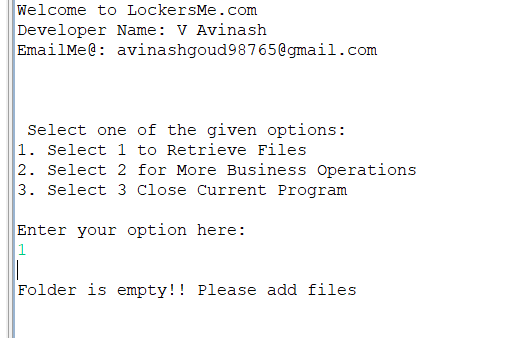
OptionOne opt = new OptionOne();

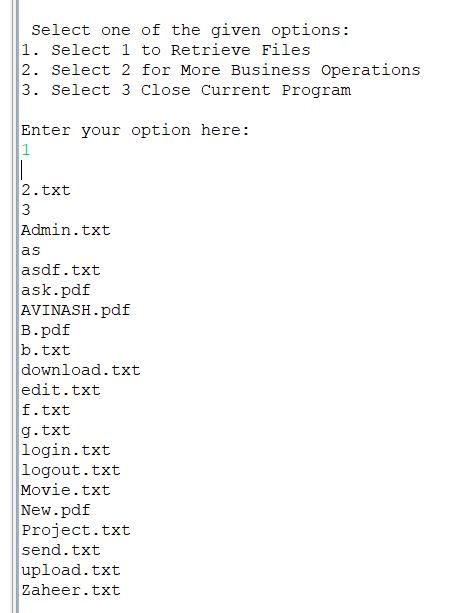
opt.optionOne();\*/

}

}

**o/p:**

a.

b.

**7.OptionTwo:** Display the second menu option: “Business Level Operations”

**package** com.simplilearn.phase1\_project;

**import** java.io.IOException;

**import** java.util.Scanner;

**public** **class** OptionTwo {

**void** optionTwo() **throws** IOException{

System.*out*.println("1.Add File");

System.*out*.println("2.Delete File");

System.*out*.println("3.Search File");

System.*out*.println("4.Main Menu");

System.*out*.println("");

Scanner scanner1 = **new** Scanner(System.*in*);

**int** input2 = 0;

**boolean** b= **true**;

**while**(b){

**try**{

System.*out*.println("Enter your option:");

input2 = scanner1.nextInt();

b= **false**;

}**catch** (Exception e) {

System.*out*.println("Invalid Input");

scanner1.next();

}

}

**if**(input2==1)

{

AddFile addFile = **new** AddFile();

addFile.addFile();

}

**else** **if**(input2==2){

DeleteFile delete = **new** DeleteFile();

delete.deleteFiles();

}

**else** **if**(input2==3){

SearchFile searchFile = **new** SearchFile();

searchFile.searchFile();

}

**else**{

OptionOne optOne = **new** OptionOne();

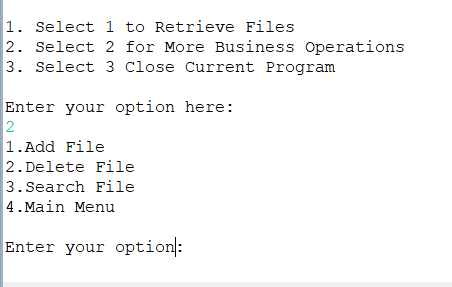
optOne.optionOne();

}

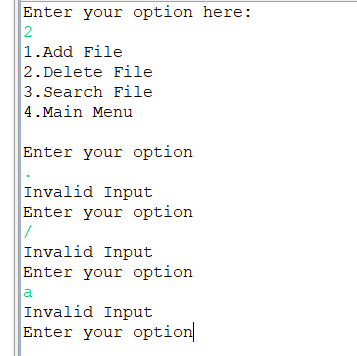
}

}

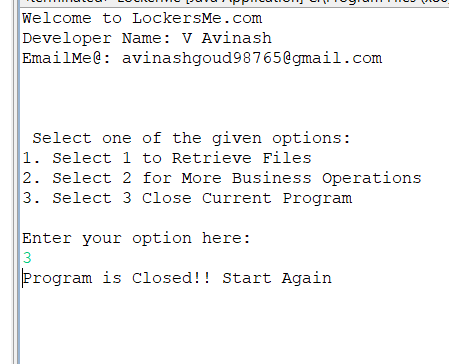
o/p:

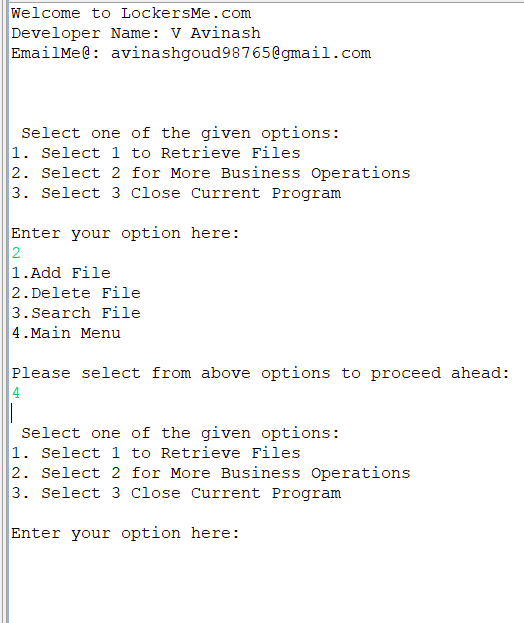
a. 

b.



Other Screenshots of closing application and to returning to main menu from business level operations:

a.

b.

This is the overall source code and screenshots of output.

The source code and other details are uploaded in Github.

**Git Hub Details:**

Github – It is open source application to create remote repository and store our project details.

Git hub Token: ghp\_QDHuvM7LljbwdHHI1Z4nofs9AWW2De0C0qJu

**Git hub commands used:**

* Git init: To initialize the git repository in local
* Git status: To show the details like commited files, untracked files
* Git add . : To add the untracked files to stages area
* Git commit –m “Added Simple Project”: To commit in local area
* Git log: To display the number of commits you already did
* Git log –oneline : To display commit id which are in local
* git branch –M main:Rename master branch master to main
* Connect locale to remote repository.
* git push origin main / git push -u origin main: To push our commits to remote repository

To connect local and remote repository we can use the below link:

git remote add origin https://ghp\_QDHuvM7LljbwdHHI1Z4nofs9AWW2De0C0qJu@github.com/avinashgithub1/phase1\_git\_Demo.git

**The following commands were executed in git bash:**

hp@Vyshu MINGW64 ~/Desktop/avi/Java\_Home/Phase1\_project (main)

$ git status

On branch main

Untracked files:

(use "git add <file>..." to include in what will be committed)

ABC/

ass

bin/

src/

nothing added to commit but untracked files present (use "git add" to track)

hp@Vyshu MINGW64 ~/Desktop/avi/Java\_Home/Phase1\_project (main)

$ git status

On branch main

Untracked files:

(use "git add <file>..." to include in what will be committed)

ABC/

bin/

src/

nothing added to commit but untracked files present (use "git add" to track)

hp@Vyshu MINGW64 ~/Desktop/avi/Java\_Home/Phase1\_project (main)

$ git add .

hp@Vyshu MINGW64 ~/Desktop/avi/Java\_Home/Phase1\_project (main)

$ git status

On branch main

Changes to be committed:

(use "git restore --staged <file>..." to unstage)

new file: ABC/2.txt

new file: ABC/3

new file: ABC/AVINASH.pdf

new file: ABC/Admin.txt

new file: ABC/B.pdf

new file: ABC/Movie.txt

new file: ABC/New.pdf

new file: ABC/Project.txt

new file: ABC/as

new file: ABC/asdf.txt

new file: ABC/ask.pdf

new file: ABC/b.txt

new file: ABC/download.txt

new file: ABC/edit.txt

new file: ABC/f.txt

new file: ABC/g.txt

new file: ABC/login.txt

new file: ABC/logout.txt

new file: ABC/send.txt

new file: ABC/upload.txt

new file: bin/com/simplilearn/phase1\_project/AddFile.class

new file: bin/com/simplilearn/phase1\_project/DeleteFile.class

new file: bin/com/simplilearn/phase1\_project/LockerMe.class

new file: bin/com/simplilearn/phase1\_project/MainMenu.class

new file: bin/com/simplilearn/phase1\_project/OptionOne.class

new file: bin/com/simplilearn/phase1\_project/RetrieveFiles.class

new file: bin/com/simplilearn/phase1\_project/SearchFile.class

new file: src/com/simplilearn/phase1\_project/AddFile.java

new file: src/com/simplilearn/phase1\_project/DeleteFile.java

new file: src/com/simplilearn/phase1\_project/LockerMe.java

new file: src/com/simplilearn/phase1\_project/MainMenu.java

new file: src/com/simplilearn/phase1\_project/OptionOne.java

new file: src/com/simplilearn/phase1\_project/RetrieveFiles.java

new file: src/com/simplilearn/phase1\_project/SearchFile.java

hp@Vyshu MINGW64 ~/Desktop/avi/Java\_Home/Phase1\_project (main)

$ git commit -m "Added Phase1 Project"

[main 03ee817] Added Phase1 Project

34 files changed, 220 insertions(+)

create mode 100644 ABC/2.txt

create mode 100644 ABC/3

create mode 100644 ABC/AVINASH.pdf

create mode 100644 ABC/Admin.txt

create mode 100644 ABC/B.pdf

create mode 100644 ABC/Movie.txt

create mode 100644 ABC/New.pdf

create mode 100644 ABC/Project.txt

create mode 100644 ABC/as

create mode 100644 ABC/asdf.txt

create mode 100644 ABC/ask.pdf

create mode 100644 ABC/b.txt

create mode 100644 ABC/download.txt

create mode 100644 ABC/edit.txt

create mode 100644 ABC/f.txt

create mode 100644 ABC/g.txt

create mode 100644 ABC/login.txt

create mode 100644 ABC/logout.txt

create mode 100644 ABC/send.txt

create mode 100644 ABC/upload.txt

create mode 100644 bin/com/simplilearn/phase1\_project/AddFile.class

create mode 100644 bin/com/simplilearn/phase1\_project/DeleteFile.class

create mode 100644 bin/com/simplilearn/phase1\_project/LockerMe.class

create mode 100644 bin/com/simplilearn/phase1\_project/MainMenu.class

create mode 100644 bin/com/simplilearn/phase1\_project/OptionOne.class

create mode 100644 bin/com/simplilearn/phase1\_project/RetrieveFiles.class

create mode 100644 bin/com/simplilearn/phase1\_project/SearchFile.class

create mode 100644 src/com/simplilearn/phase1\_project/AddFile.java

create mode 100644 src/com/simplilearn/phase1\_project/DeleteFile.java

create mode 100644 src/com/simplilearn/phase1\_project/LockerMe.java

create mode 100644 src/com/simplilearn/phase1\_project/MainMenu.java

create mode 100644 src/com/simplilearn/phase1\_project/OptionOne.java

create mode 100644 src/com/simplilearn/phase1\_project/RetrieveFiles.java

create mode 100644 src/com/simplilearn/phase1\_project/SearchFile.java

hp@Vyshu MINGW64 ~/Desktop/avi/Java\_Home/Phase1\_project (main)

$ git status

On branch main

nothing to commit, working tree clean

hp@Vyshu MINGW64 ~/Desktop/avi/Java\_Home/Phase1\_project (main)

$ git log

commit 03ee817ca4de7e6afb9817677e6c49d10985ebc1 (HEAD -> main)

Author: avinashv <avinash@gmail.com>

Date: Thu Mar 10 22:17:59 2022 +0530

Added Phase1 Project

commit f755f757a84087daf768ba6eb70d014387e99402

Author: avinashv <avinash@gmail.com>

Date: Sun Mar 6 18:52:44 2022 +0530

Added Simple Project

hp@Vyshu MINGW64 ~/Desktop/avi/Java\_Home/Phase1\_project (main)

$ git log --oneline

03ee817 (HEAD -> main) Added Phase1 Project

f755f75 Added Simple Project

hp@Vyshu MINGW64 ~/Desktop/avi/Java\_Home/Phase1\_project (main)

$ git remote add origin https://ghp\_jFfGQT7bTaLZqxGRrzHtqtP2LFniQF3mw6Vr@github.

error: remote origin already exists.

hp@Vyshu MINGW64 ~/Desktop/avi/Java\_Home/Phase1\_project (main)

$ git push -u origin main

Enumerating objects: 32, done.

Counting objects: 100% (32/32), done.

Delta compression using up to 4 threads

Compressing objects: 100% (25/25), done.

Writing objects: 100% (32/32), 10.26 KiB | 656.00 KiB/s, done.

Total 32 (delta 3), reused 0 (delta 0), pack-reused 0

remote: Resolving deltas: 100% (3/3), done.

To https://github.com/avinashgithub1/phase1\_git\_Demo.git

\* [new branch] main -> main

Branch 'main' set up to track remote branch 'main' from 'origin'.

Git bash update 2:

hp@Vyshu MINGW64 ~/Desktop/avi/Java\_Home/Phase1\_project (main)

$ git status

On branch main

Your branch is up to date with 'origin/main'.

Changes not staged for commit:

(use "git add <file>..." to update what will be committed)

(use "git restore <file>..." to discard changes in working directory)

modified: bin/com/simplilearn/phase1\_project/AddFile.class

modified: bin/com/simplilearn/phase1\_project/DeleteFile.class

modified: bin/com/simplilearn/phase1\_project/RetrieveFiles.class

modified: bin/com/simplilearn/phase1\_project/SearchFile.class

modified: src/com/simplilearn/phase1\_project/AddFile.java

modified: src/com/simplilearn/phase1\_project/DeleteFile.java

modified: src/com/simplilearn/phase1\_project/RetrieveFiles.java

modified: src/com/simplilearn/phase1\_project/SearchFile.java

Untracked files:

(use "git add <file>..." to include in what will be committed)

ABC/Zaheer.txt

no changes added to commit (use "git add" and/or "git commit -a")

hp@Vyshu MINGW64 ~/Desktop/avi/Java\_Home/Phase1\_project (main)

$ git add ..

fatal: ..: '..' is outside repository at 'C:/Users/hp/Desktop/avi/Java\_Home/Phase1\_project'

hp@Vyshu MINGW64 ~/Desktop/avi/Java\_Home/Phase1\_project (main)

$ git add .

hp@Vyshu MINGW64 ~/Desktop/avi/Java\_Home/Phase1\_project (main)

$ git status

On branch main

Your branch is up to date with 'origin/main'.

Changes to be committed:

(use "git restore --staged <file>..." to unstage)

new file: ABC/Zaheer.txt

modified: bin/com/simplilearn/phase1\_project/AddFile.class

modified: bin/com/simplilearn/phase1\_project/DeleteFile.class

modified: bin/com/simplilearn/phase1\_project/RetrieveFiles.class

modified: bin/com/simplilearn/phase1\_project/SearchFile.class

modified: src/com/simplilearn/phase1\_project/AddFile.java

modified: src/com/simplilearn/phase1\_project/DeleteFile.java

modified: src/com/simplilearn/phase1\_project/RetrieveFiles.java

modified: src/com/simplilearn/phase1\_project/SearchFile.java

hp@Vyshu MINGW64 ~/Desktop/avi/Java\_Home/Phase1\_project (main)

$ git commit -m "Added Phase1 Project Changes"

[main d45ce45] Added Phase1 Project Changes

9 files changed, 8 insertions(+), 8 deletions(-)

create mode 100644 ABC/Zaheer.txt

hp@Vyshu MINGW64 ~/Desktop/avi/Java\_Home/Phase1\_project (main)

$ git status

On branch main

Your branch is ahead of 'origin/main' by 1 commit.

(use "git push" to publish your local commits)

nothing to commit, working tree clean

hp@Vyshu MINGW64 ~/Desktop/avi/Java\_Home/Phase1\_project (main)

$ git log

commit d45ce45516a2eb1594cf184ea20aacdd47222f86 (HEAD -> main)

Author: avinashv <avinash@gmail.com>

Date: Thu Mar 10 23:18:24 2022 +0530

Added Phase1 Project Changes

commit 03ee817ca4de7e6afb9817677e6c49d10985ebc1 (origin/main)

Author: avinashv <avinash@gmail.com>

Date: Thu Mar 10 22:17:59 2022 +0530

Added Phase1 Project

commit f755f757a84087daf768ba6eb70d014387e99402

Author: avinashv <avinash@gmail.com>

Date: Sun Mar 6 18:52:44 2022 +0530

Added Simple Project

hp@Vyshu MINGW64 ~/Desktop/avi/Java\_Home/Phase1\_project (main)

$ git log --oneline

d45ce45 (HEAD -> main) Added Phase1 Project Changes

03ee817 (origin/main) Added Phase1 Project

f755f75 Added Simple Project

hp@Vyshu MINGW64 ~/Desktop/avi/Java\_Home/Phase1\_project (main)

$ git remote add origin https://ghp\_QDHuvM7LljbwdHHI1Z4nofs9AWW2De0C0qJu@github.com/avinashgithub1/phase1\_git\_Demo.git

error: remote origin already exists.

hp@Vyshu MINGW64 ~/Desktop/avi/Java\_Home/Phase1\_project (main)

$ git push -u origin main

Enumerating objects: 35, done.

Counting objects: 100% (35/35), done.

Delta compression using up to 4 threads

Compressing objects: 100% (13/13), done.

Writing objects: 100% (19/19), 2.21 KiB | 251.00 KiB/s, done.

Total 19 (delta 9), reused 0 (delta 0), pack-reused 0

remote: Resolving deltas: 100% (9/9), completed with 9 local objects.

remote: This repository moved. Please use the new location:

remote: https://github.com/avinashgithub1/phase1\_Project.git

To https://github.com/avinashgithub1/phase1\_git\_Demo.git

03ee817..d45ce45 main -> main

Branch 'main' set up to track remote branch 'main' from 'origin'.

hp@Vyshu MINGW64 ~/Desktop/avi/Java\_Home/Phase1\_project (main)

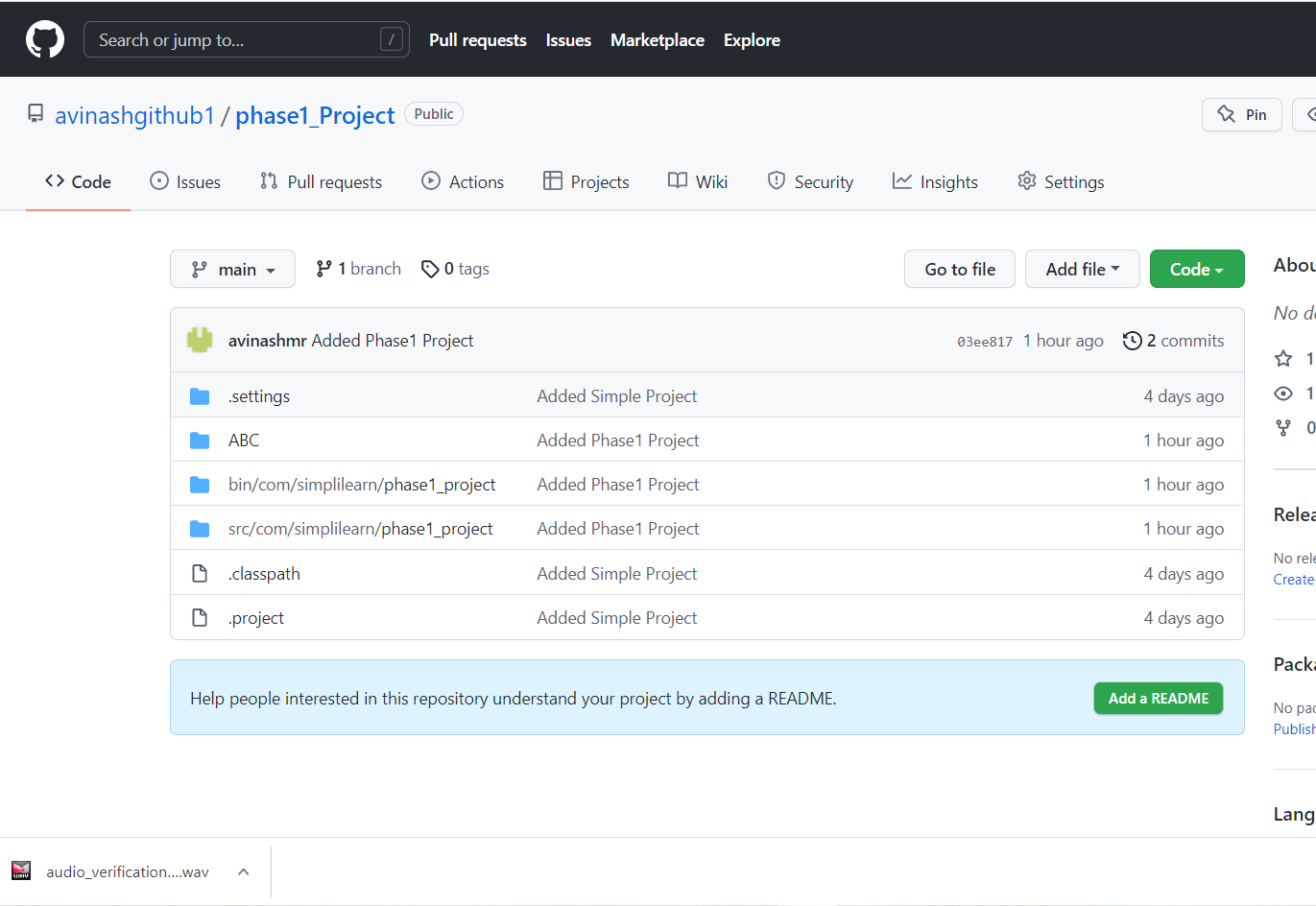
$ git status

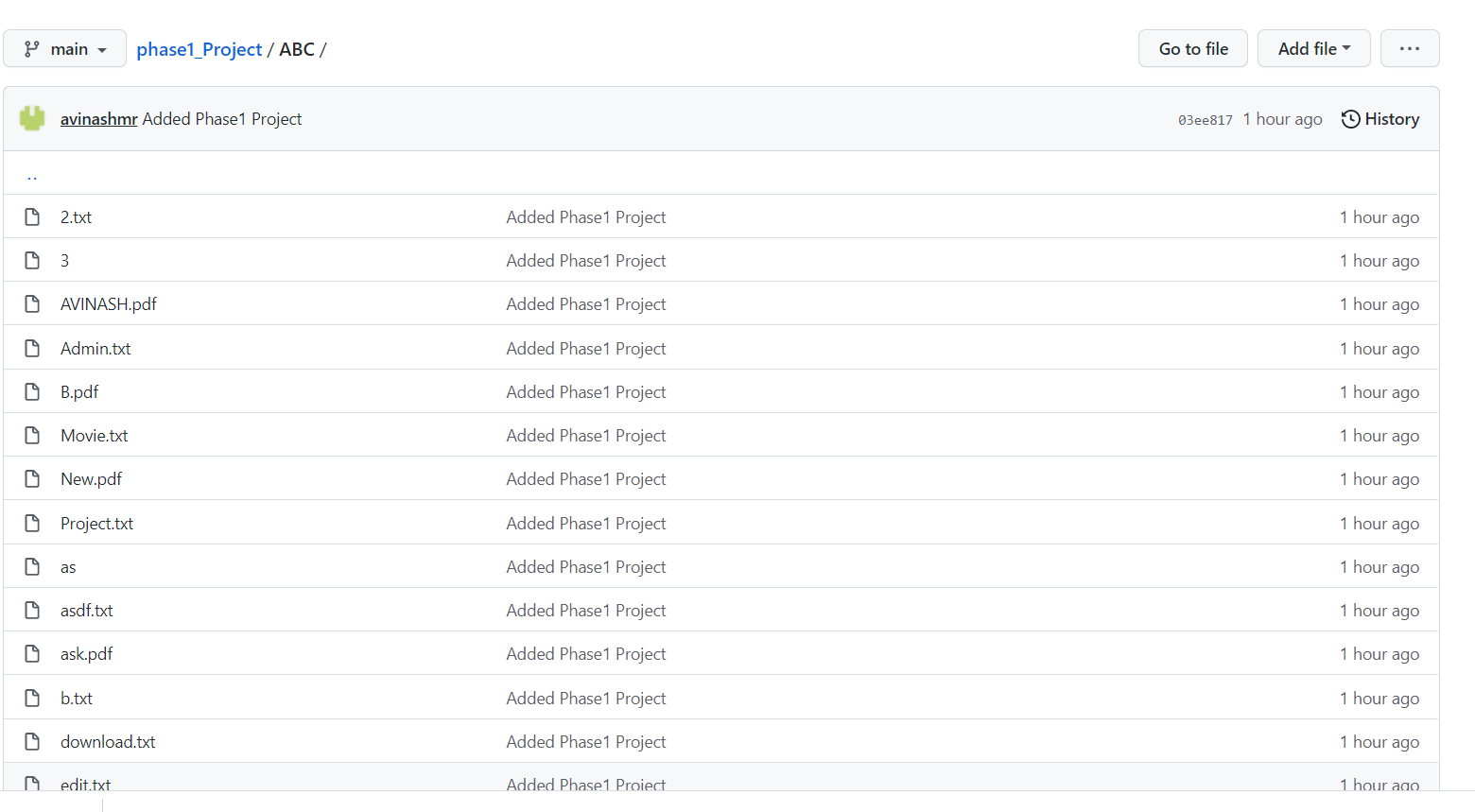
On branch main

Your branch is up to date with 'origin/main'.

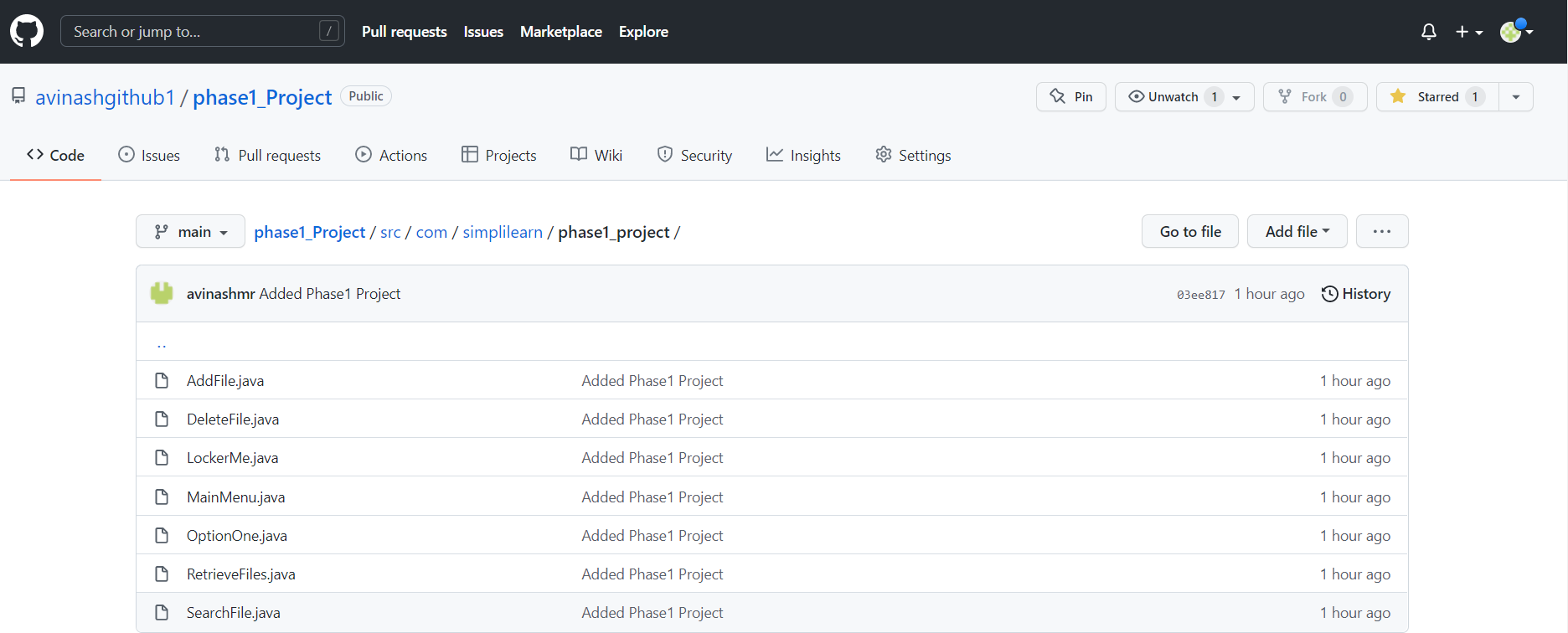
nothing to commit, working tree clean

Git hub Screenshots:

1. 

2.

3.



**Conclusion:** By using this application we can add/delete/search/retrieve files. We can enhance this application further by adding functionalities like authentication page, writing into files, modifying the data in the files etc.