Source Code Explanation:

Phase1_Func:

```
package ProjectEx;
import java.util.*;
public class Phase1_Func{
	public static void main(String[] args) {
		Phase1 ph = new Phase1();
		Scanner sc = new Scanner(System.in);
		System.out.println("Welcome to LockedMe.com Application!-By Shalini Priya");
		System.out.println(" ");
		int s=0;
		do
		{
			while (true)
			{
		System.out.println("\nType 1 to Retrieve\nType 2 to do Operations\nType 3 to Exit");
		System.out.println("Enter your choice:");
		s = sc.nextInt();
		break;
	}
			switch(s)
			{
				case 1:
					ph.Retrieving();
					break;
				case 2:
					int t=1;
					String ch;
					do
```

```
{
                System.out.println("\nType a to add\nType b to delete\nType c to search\nType d to go back to home");
                ch = sc.next();
                switch(ch)
                {
                        case "a":

                                ph.Add();

                                break;

                        case "b":
                                ph.delete();

                                break;

                        case "c":

                                ph.search();

                                break;

                        case "d":

                                t=0;
                                break;
                        default:
                        System.out.println("Invalid Input");

                                break;
```

```
                                        }
                                    }while(t!=0);
                                    break;
                                case 3:
                                    System.out.println(" ");
                                    System.out.println("Thank you for using the app.");

                                    System.exit(0);
                                default:
                                    System.out.println("Invalid Input");
                                    break;
                            }
                        }while(true);
                }
}
```

Phase1 :

```
package ProjectEx;
import java.io.*;
import java.util.*;

public class Phase1 {
        Scanner sc = new Scanner(System.in);
        public void Retrieving() {
                File fr = new File("/Users/shalinipriyar/Documents/Project");
            if (!fr.exists())
            {
              fr.mkdirs();
            }
            File[] files = fr.listFiles();
            if(files.length==0)
```

```
    {
        System.out.println("No Files Found....");
    }
    else
    {
        ArrayList<String> fileList = new ArrayList<>();
      for (File file : files)
      {
        if (file.isFile())
        {
          fileList.add(file.getName());
        }
      }
      int n = fileList.size();
      for (int i = 0; i < n - 1; i++)
      {
        for (int j = i + 1; j < n; j++)
        {
          if (fileList.get(i).compareTo(fileList.get(j)) > 0)
          {
            String temp = fileList.get(i);
            fileList.set(i, fileList.get(j));
            fileList.set(j, temp);
          }
        }
      }
      for (String fileName : fileList)
      {
        System.out.println(fileName);
      }
    }
}

public void Add() {
```

```
        File folder = new File("/Users/shalinipriyar/Documents/Project");
if (!folder.exists())
{
  folder.mkdirs();
}
File[] files = folder.listFiles();
boolean checker;
String noff="";
do
{
        System.out.println("Enter the name of the file to add: ");
        noff = sc.next();
        checker = false;
        for (File file : files)
        {
                if (noff.equalsIgnoreCase(file.getName()))
                {
                        System.out.println("File name already exists....");
                        checker = true;
                        break;
                }
        }
}while(checker);
System.out.println("Enter the content of the file: ");
sc.nextLine();
String contentoffile = sc.nextLine();
File file = new File(folder, noff);
try {
  FileWriter writer = new FileWriter(file);
  writer.write(contentoffile);
  writer.close();
  System.out.println("File created as " + file.getName());
} catch (IOException e) {
  System.out.println("An error occurred.");
```

```
        e.printStackTrace();
    }
}
public void delete() {
        File folder = new File("/Users/shalinipriyar/Documents/Project");
    if (!folder.exists())
    {
      folder.mkdirs();
    }
    File[] files = folder.listFiles();
    boolean checker;
    String nameoffile="";
    do {
    System.out.println("Enter the name of the file to delete: ");
    nameoffile = sc.next();
    checker = true;
    for (File file : files)
    {
        if (nameoffile.equalsIgnoreCase(file.getName()))
        {
            file.delete();
            System.out.println("File deleted...");
            checker = false;
            break;
        }
    }
    if(checker==true)
    {
        System.out.println("File name doesn't exists...");
    }
    }while(checker);
}
public void search() {
        File folder = new File("/Users/shalinipriyar/Documents/Project");
```

```
if (!folder.exists())
{
  folder.mkdirs();
}
File[] files = folder.listFiles();
boolean checker;
String nameoffile="";
do {
System.out.println("Enter the name of the file to search: ");
nameoffile = sc.next();
checker = true;
for (File file : files)
{
	if (nameoffile.equalsIgnoreCase(file.getName()))
	{
		System.out.println("File content:");
		try (BufferedReader reader = new BufferedReader(new FileReader(file)))
		{
			String line;
			while ((line = reader.readLine()) != null)
			{
				System.out.println(line);
			}
		} catch (IOException e) {
	 System.err.println("Error reading file: " + e.getMessage());
		}
		checker = false;
		break;
	}
}
if(checker==true)
{
	System.out.println("File name doesn't exists...");
}
```

```
            }while(checker);
        }
}
```

EXPLANATION

Welcome to LockedMe.com Application! - By Shalini Priya
Type 1 to Retrieve
Type 2 to do Operations
Type 3 to Exit
Enter your choice:

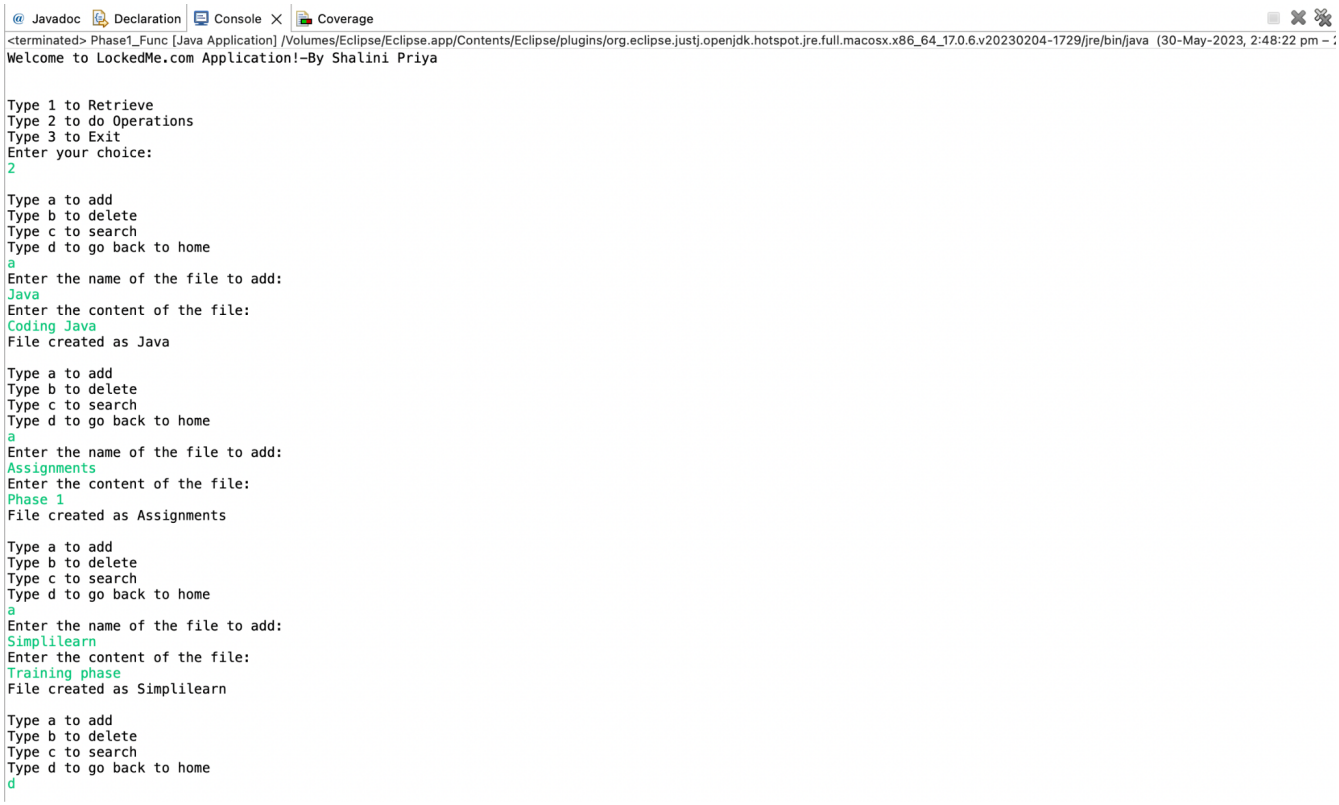
This is the interface, where user can interact with the application. Here the application gives user 3 choices which includes - to retrieve, to do operations , to exit.
Based on the choice of the user, the working will proceed.

Enter your choice: 2

Type a to add
Type b to delete
Type c to search
Type d to go back to home

If the user choice is 2. The application will display certain option like - to add, delete, search, to go back home.
Based on the choice the application will proceed.

If it is a, then the application will add a file which the user will enter.



If it is b, then the application will delete the file which the user wants.

If it is c, then the user will search for the file the user wants.

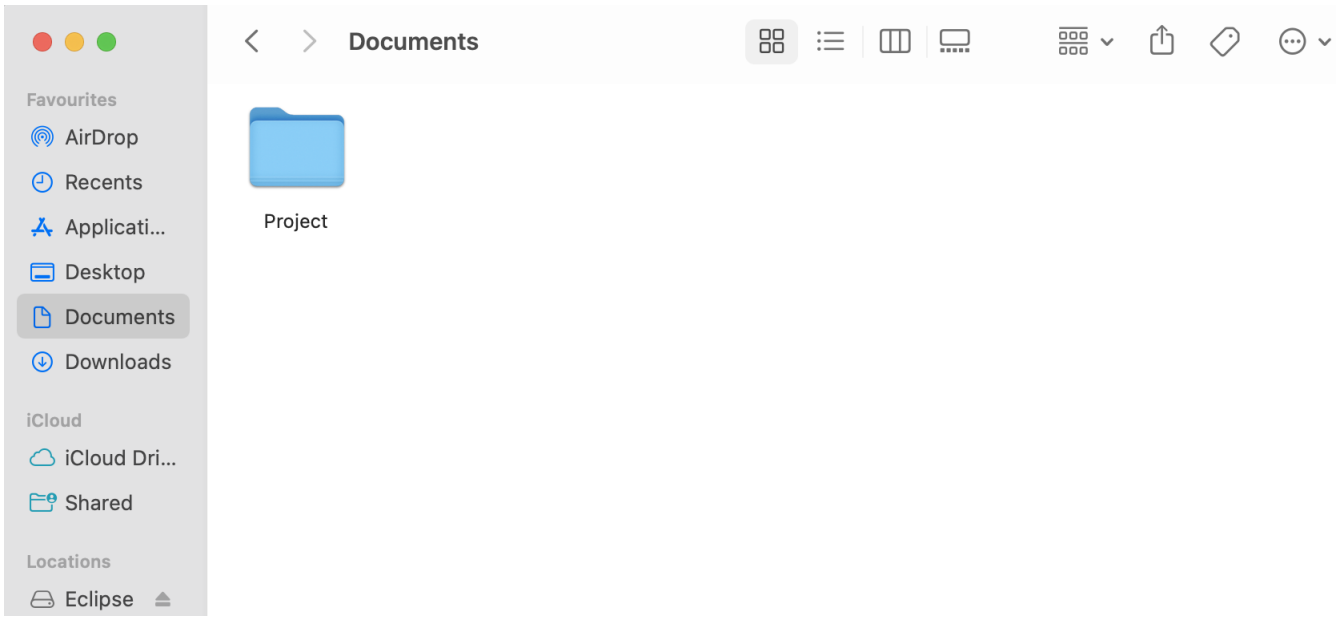
If it is d, then the application will return the user to the main menu.

If the user types 1, then the application will retrieve all the files present in the folder.

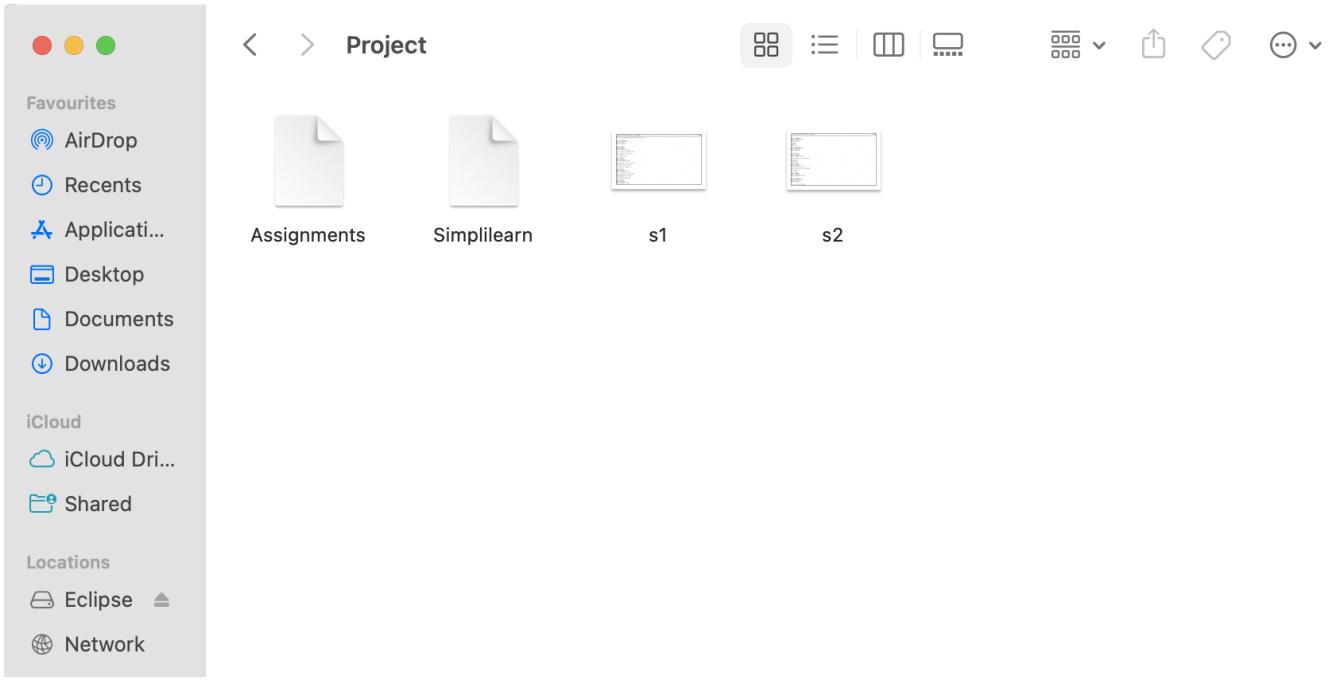
If the user types 3, then the application will exit with a thank you message.

```
Javadoc  Declaration  Console  Coverage
<terminated> Phase1_Func [Java Application] /Volumes/Eclipse/Eclipse.app/Contents/Eclipse/plugins/org.eclipse.justj.openjdk.hotspot.jre.full.macosx.x86_64_17.0.6.v20230204-1729/jre/bin/java  (30-May-2023, 2:48:22 pm – 2

Type 1 to Retrieve
Type 2 to do Operations
Type 3 to Exit
Enter your choice:
1
Assignments
Java
Simplilearn

Type 1 to Retrieve
Type 2 to do Operations
Type 3 to Exit
Enter your choice:
2

Type a to add
Type b to delete
Type c to search
Type d to go back to home
c
Enter the name of the file to search:
java
File content:
Coding Java

Type a to add
Type b to delete
Type c to search
Type d to go back to home
b
Enter the name of the file to delete:
java
File deleted...

Type a to add
Type b to delete
Type c to search
Type d to go back to home
d

Type 1 to Retrieve
Type 2 to do Operations
Type 3 to Exit
Enter your choice:
3

Thank you for using the app.
```

The folder created is



The files inside the folder is:



The content inside the file is: