

## [Lockedme.com - Virtual Key for Your Repositories](#)

This is specification document for Lockedme.com project which is the **assessment** for **Phase 1/Course 2** of **Full Stack Java Developer Master Program** by **Simplilearn**.

This documents contains following:

- Product's capabilities
- **Sprint** planning
- **Flow** of the application
- List the core **concepts and algorithms** being used to complete this application
- Product appearance, and user interactions
- Java concepts being used in the project
- Data Structures where sorting and searching techniques are used.
- Unique Selling Points

Project source code is available at Github

<https://github.com/AdityaYada17/Lockedme.com>

### **Product's capabilities**

- Retrieving the file names in an ascending order
- Business-level operations:

Option to add a user specified file to the application

Option to delete a user specified file from the application

Option to search a user specified file from the application

Navigation back to main context

- Option to close the application

User can start the application and interact via command line

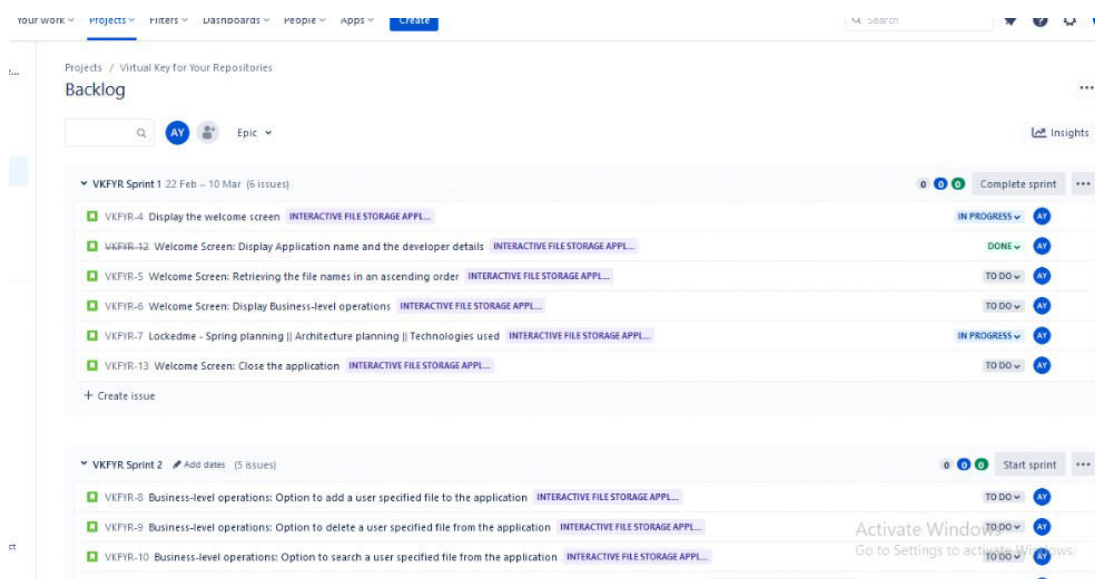
## Product Backlog

- Print Application and developer info
- Print Main Menu
- Return all file names with relative path in root folder and all sub folders recursively
- Print Business Menu
- Add File Operation
- Delete File Operation
- Search for a File
- Navigate Back to Main menu
- Close Application

## Sprint planning

- Project development is two sprints with task planning for each and every functionality
- Basic functionality of Welcome screen and Business screen is achieved in First Sprint
- All File Operations in Business screen is achieved in second screen
- IntelliJ IDEA community edition is used for project development
- Internet and Simplilearn videos were used to develop the java code

Atlassian JIRA is used for this project



# Project Epic

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Projects / Virtual Key for Your... / VKFYR-3

Interactive file storage application

Attach Add a child issue Link issue ▾ ...

Description

Project objective:

As a Full Stack Developer, complete the features of the application by planning the development in terms of sprints and then push the source code to the GitHub repository. As this is a prototyped application, the user interaction will be via a command line.

Background of the problem statement:

Company Lockers Pvt. Ltd. hired you as a Full Stack Developer. They aim to digitize their products and chose [LockedMe.com](#) as their first project to start with. You're asked to develop a prototype of the application. The prototype of the application will be then presented to the relevant stakeholders for the budget approval. Your manager has set up a meeting where you're asked to present the following in the next 15 working days (3 weeks):

- Specification document - Product's capabilities, appearance, and user interactions
- Number and duration of sprints required
- Setting up Git and GitHub account to store and track your enhancements of the prototype
- Java concepts being used in the project
- Data Structures where sorting and searching techniques are used.
- Generic features and three operations:
  - ▾ Retrieving the file names in an ascending order

Add a comment...

In Progress ▾

Details

Assignee

Labels

Start date

Due date

Reporter

Created February 21, 2023 at 9:1

Updated 2 days ago

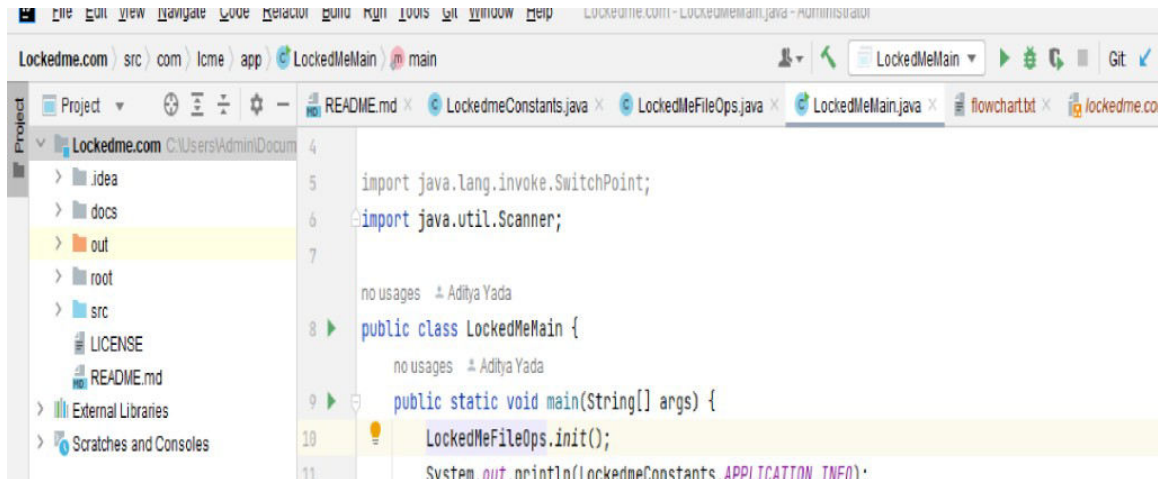
## Tasks Planning and division

Project: ... ▾ Type: All ▾ Status: ... ▾ Assignee... ▾ + More										
Contains text Search Switch to JQL										
T	Key	Summary	Assignee	Reporter	P	Status	Resolution	Created ▾	Updated	Due
1	VKFYR-14	Application E2E testing	Aditya Yada	Aditya Yada	==	IN PROGRESS	Unresolved	01/Mar/23	06/Mar/23	...
1	VKFYR-13	Main Menu: 3.Option to close the application	Aditya Yada	Aditya Yada	==	DONE	Done	01/Mar/23	06/Mar/23	
1	VKFYR-12	Main Menu: Display Application name and the developer details	Aditya Yada	Aditya Yada	==	DONE	Done	01/Mar/23	05/Mar/23	
1	VKFYR-11	Business-level operations: 4.Navigation option to close the current execution context and return to the main context	Aditya Yada	Aditya Yada	==	DONE	Done	01/Mar/23	06/Mar/23	
1	VKFYR-10	Business-level operations: 3.Option to search a user	Aditya Yada	Aditya Yada	==	DONE	Done	01/Mar/23	06/Mar/23	
Project: ... ▾ Type: All ▾ Status: ... ▾ Assignee... ▾ + More										
Contains text Search Switch to JQL										
1	VKFYR-9	Business-level operations: 2.Option to delete a user specified file from the application	Aditya Yada	Aditya Yada	==	DONE	Done	28/Feb/23	06/Mar/23	
1	VKFYR-8	Business-level operations: 1.Option to add a user specified file to the application	Aditya Yada	Aditya Yada	==	DONE	Done	28/Feb/23	05/Mar/23	
1	VKFYR-7	Lockedme - Spring planning    Architecture planning    Technologies used	Aditya Yada	Aditya Yada	==	IN PROGRESS	Unresolved	28/Feb/23	06/Mar/23	
1	VKFYR-6	Main Menu: 2.Display Business-level operations	Aditya Yada	Aditya Yada	==	DONE	Done	21/Feb/23	05/Mar/23	
1	VKFYR-5	Main Menu: 1.Retrieving the file names in an ascending order	Aditya Yada	Aditya Yada	==	DONE	Done	21/Feb/23	05/Mar/23	
1	VKFYR-4	Display the welcome screen	Aditya Yada	Aditya Yada	==	DONE	Done	21/Feb/23	05/Mar/23	
1	VKFYR-3	Interactive file storage application	Aditya Yada	Aditya Yada	==	IN PROGRESS	Unresolved	21/Feb/23	01/Mar/23	

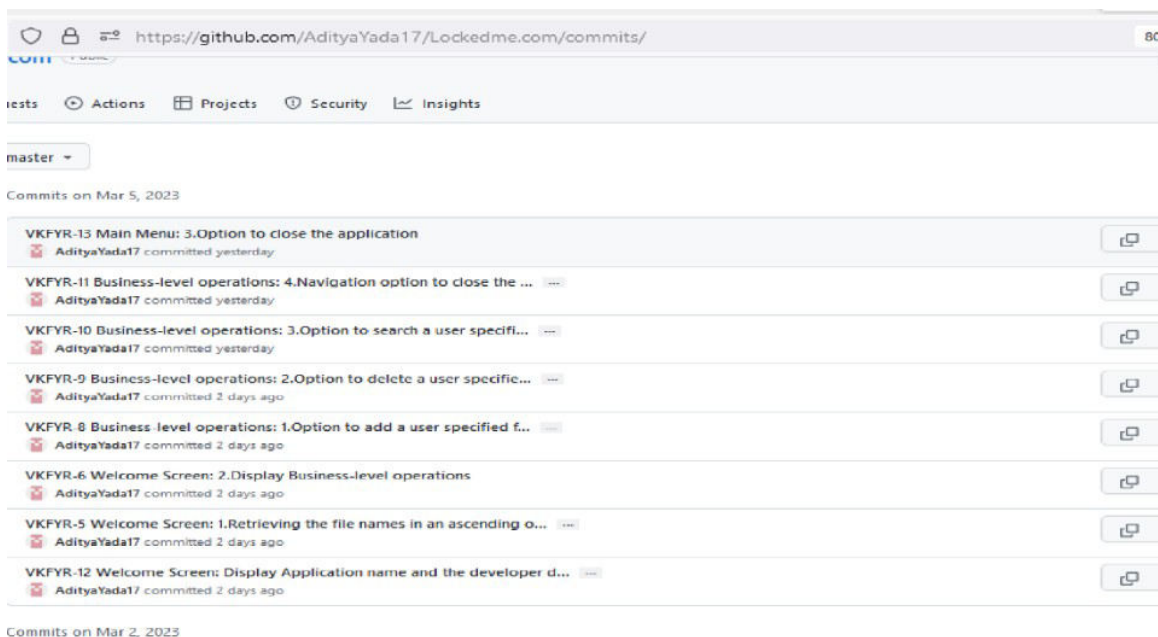
## Git and Github

Project is hosted as Github public repository at  
<https://github.com/AdityaYada17/Lockedme.com/>

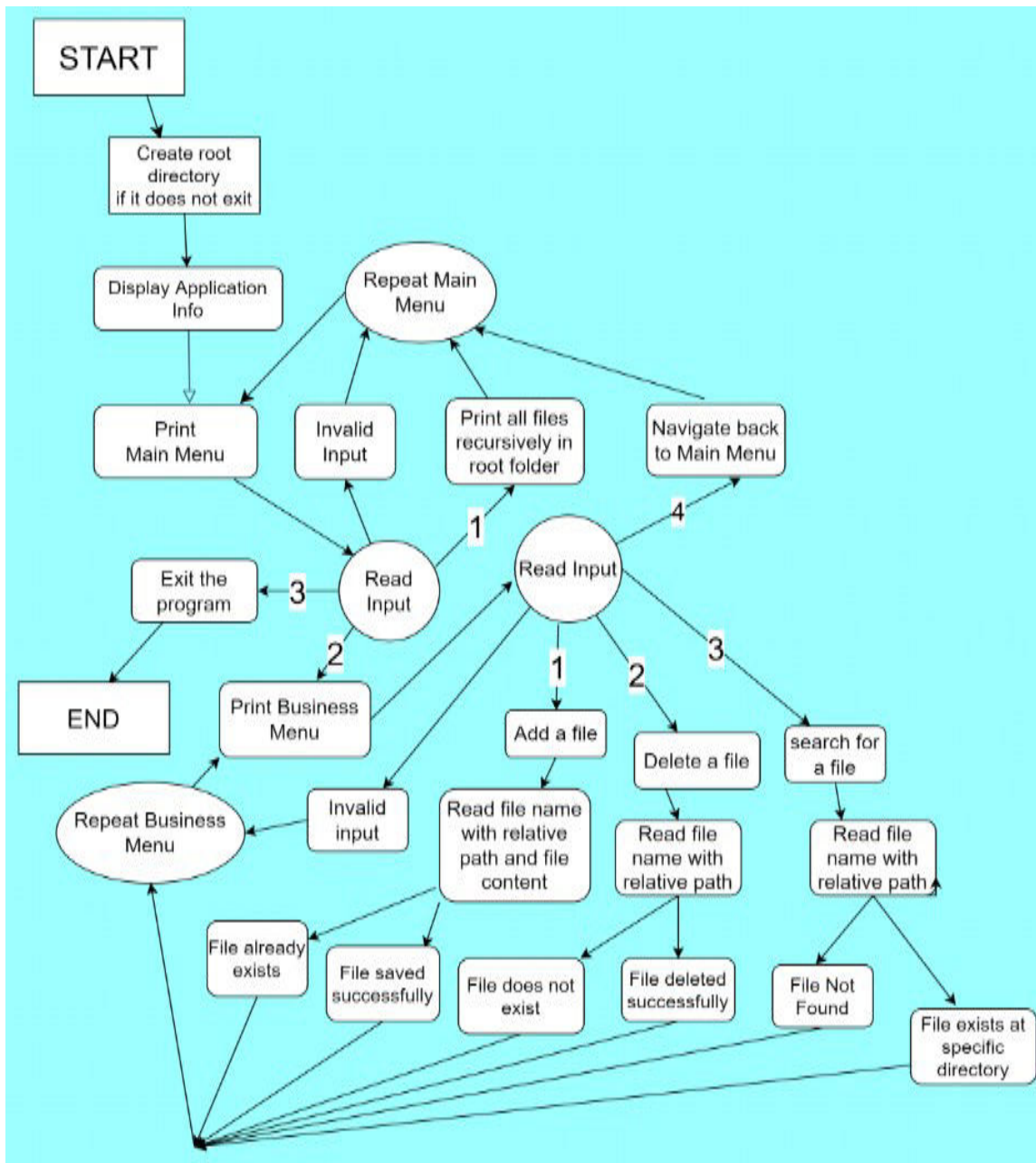
IntelliJ IDEA was used for project development



Code was gradually developed as task planning in JIRA and code committed in the name of each task



## Project Functionality Flowchart



Note:

The above flowchart was developed at <https://app.diagrams.net/>

The drawio file is available in the repository under the link  
<https://github.com/AdityaYada17/Lockedme.com/blob/master/docs/lockedme.com.drawio>

## Core concepts and algorithms

- java.io.File, java arrays, Scanner
- Flow control using switch case, while loop, recursions
- Exception handling
- Sorting and Searching

## Product appearance, and user interactions

Project hosted under <https://github.com/AdityaYada17/Lockedme.com/>

This project can be run locally by following below steps

- Clone locally using  
git clone <https://github.com/AdityaYada17/Lockedme.com.git>
- Open it in Eclipse/IntelliJ/Netbeans or any Java IDE
- Run as java project or run main class ( IDE could automatically build and run )
- Project runs on command line and user can interact with application from command line

Project folder hierarchy

```
.
├── Lockedme.com/
│   ├── src/
│   │   ├── com/
│   │   │   ├── lcme/
│   │   │   │   ├── app/
│   │   │   │   │   ├── LockedmeConstants.java
│   │   │   │   │   ├── LockedMeFileOps.java
│   │   │   │   │   └── LockedMeMain.java
```



It contains the main method from which program execution begins

LockedMeFileOps.java does all File Operations used in the application

## LockedmeConstants.java

## Program Execution and User Interactions

Some of the user interactions looks like below

```

C:\Program Files\Java\jdk-11.0.1\bin\java.exe" -javaagent:C:\Program Files\JetBrains
#####
#####
#####
#####
#####Virtual Key for Your Repositories #####
#####Company Lockers Pvt. Ltd #####
#####Lockedme.com #####
#####Aditya Yada #####
#####FULL Stack Developer #####
#####
#####
#####
Please choose an option from below main menu:
1.Retrieving the file names in an ascending order
2.Business Operations
3.Close the application

```

Retrieve all files from root folder and all its subfolders

```
1.Retrieving the file names in an ascer
2.Business Operations
3.Close the application
1
abc.txt
asasd
awdasdasd
flowchart.txt
qequeqwe\asdascf.hgh
qw\zxc.txt
qwe
qwer
simpl\uu
simpli\javafsd
uu
we
wqweqw
wrewerwer\asczsc.txt
wrewerwer\javafsd
Please choose an option from below mair
1.Retrieving the file names in an ascer
2.Business Operations
3.Close the application
```

Enter Business Menu

```
wrewerwer\asczsc.txt
wrewerwer\javafsd
Please choose an option from below main menu:
1.Retrieving the file names in an ascending order
2.Business Operations
3.Close the application
2
Please choose an option from below business menu:
1.Add a file
2.Delete a file
3.Search for a file
4.Navigate back to main menu
```



## Add a File

- 1.Add a file
- 2.Delete a file
- 3.Search for a file
- 4.Navigate back to main menu

```
1
Enter file name with relative path
simplilearn/tt.txt
Enter file contents
Java Full Stack Developer Course 1
File added successfully at relative path simplilearn/tt.txt
Please choose an option from below business menu:
1 Add a file
```

## Search for a File

Please choose an option from below business menu:

- 1.Add a file
- 2.Delete a file
- 3.Search for a file

4.Navigate back to main menu

3

Enter file name

javafsd

File found at location simpli\javafsd

File found at location wrewerwer\javafsd

Please choose an option from below business menu:

- 1.Add a file

## Exit Application

## Unique Selling Points

- Application can run on JDK 8 and above
- No File system issues
- User can add file contents with file contents
- User can specify relative path when deleting a file
- Search functionality is recursive across all subfolders