

[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.

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

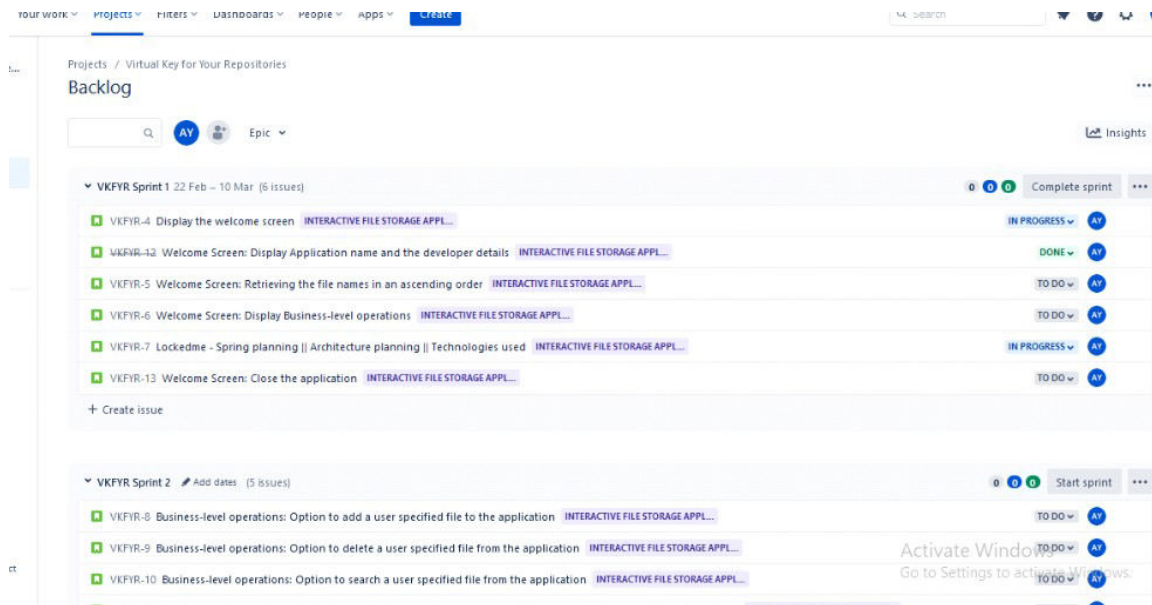
Sprint planning

- 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

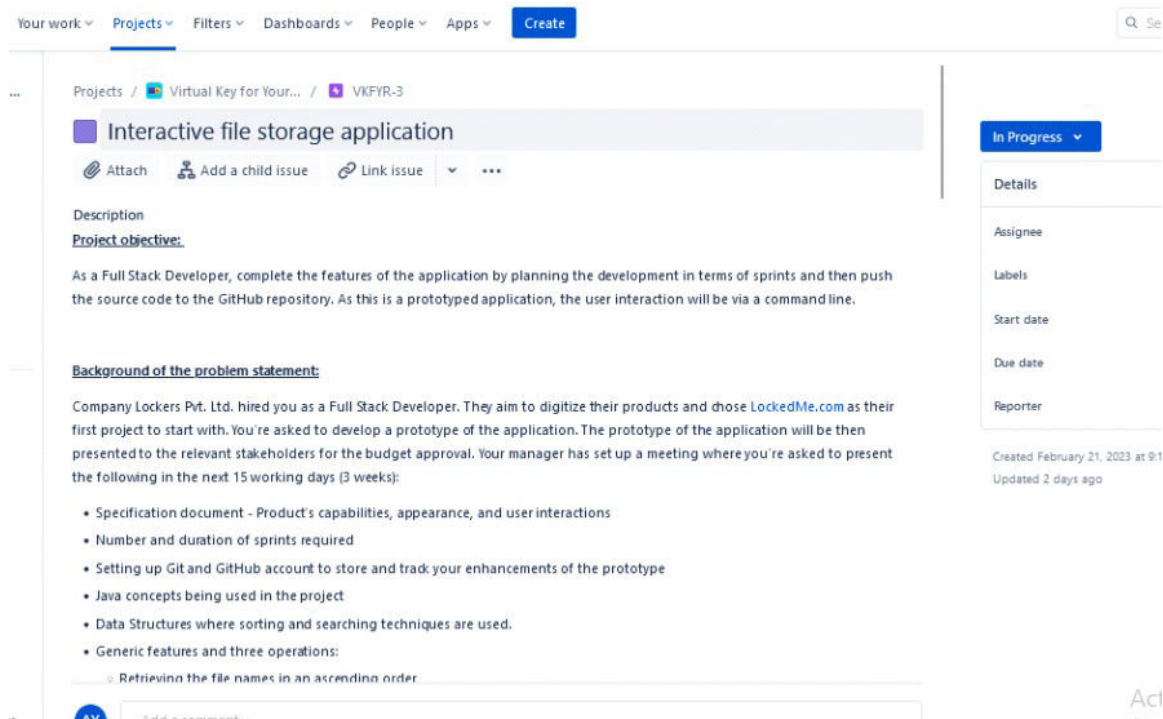
- Internet and Simplilearn videos were used to develop the java code

Atlassian JIRA is used for this project

Backlog and Sprints planning



Project Epic



Tasks Planning and division

Simplilearn

Project: ...

Type: All

Status: ...

Assigne...

+ 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: ...

Assigne...

+ More

Contains text

Search

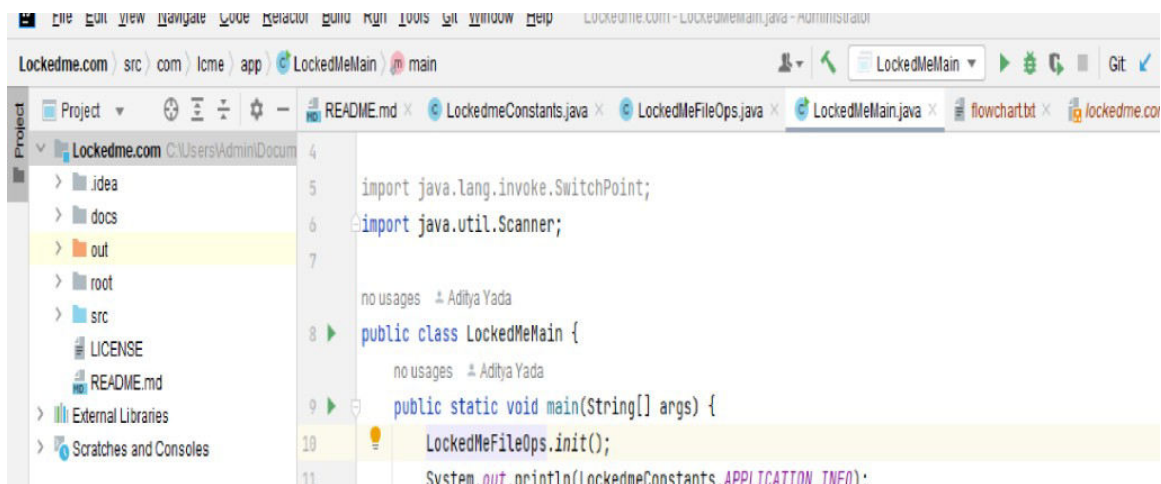
Switch to JQL

| | | | | | | | | | | |
|---|---------|--|-------------|-------------|--|-------------|------------|-----------|-----------|--|
| 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 | |

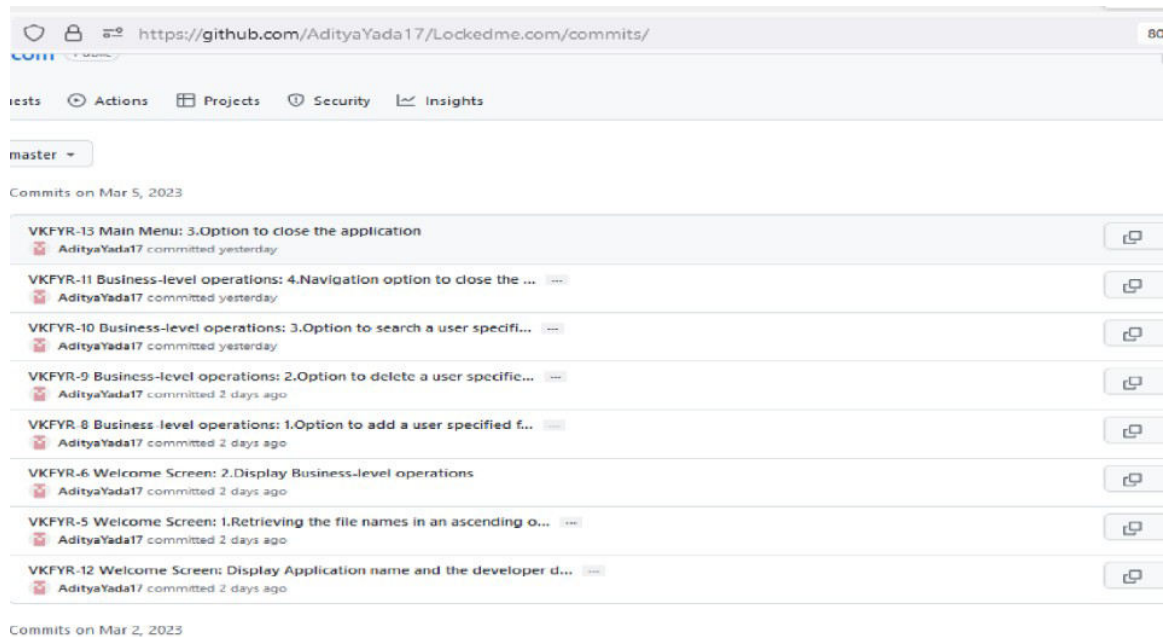
Git and Github

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

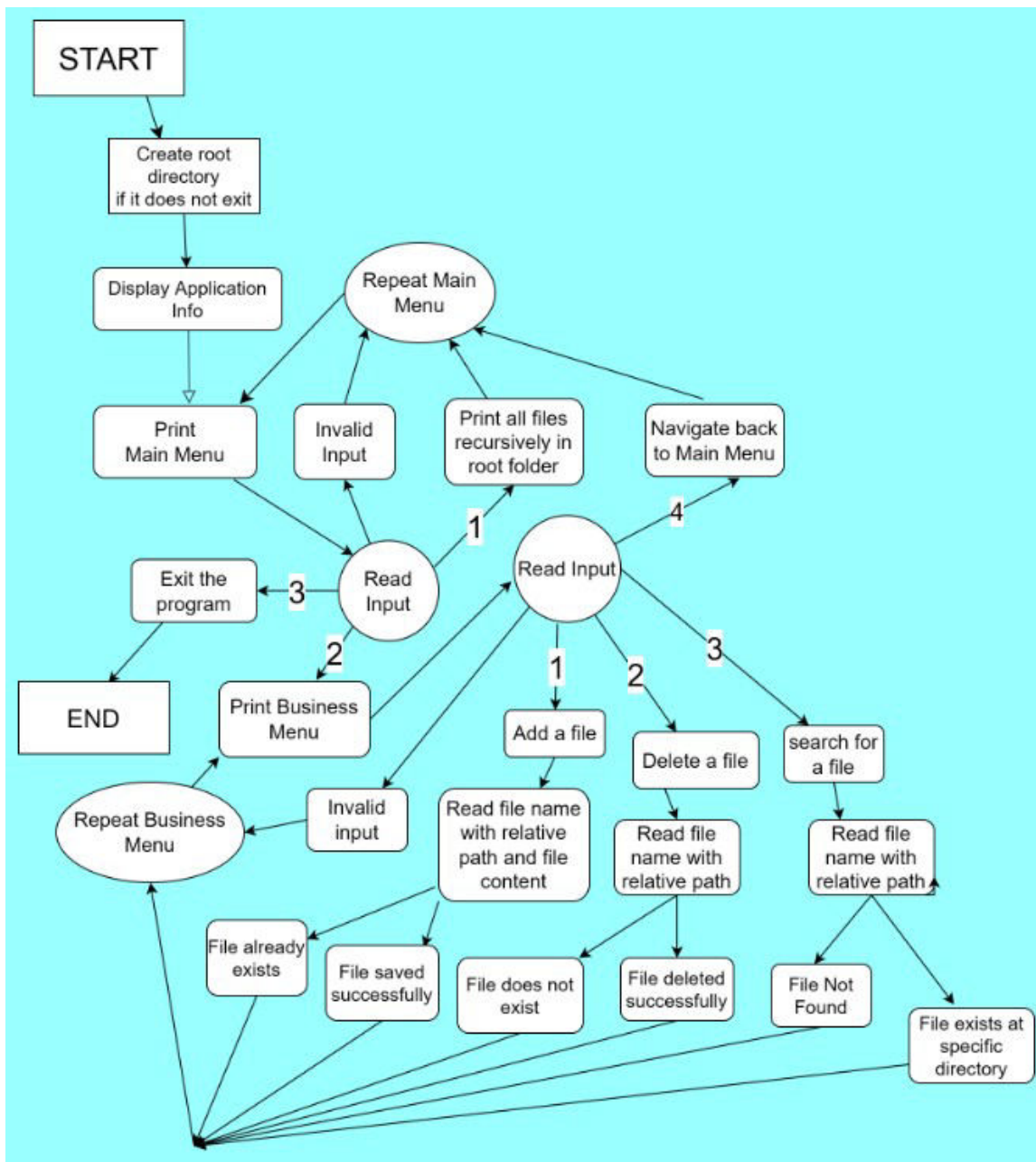
IntelliJ IDEA was used for project development



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
```

[LockedMain.java](#) is the entry point of the application .

It contains the main method from which program execution begins

Switch case, recursive while loop are mainly used this class

[LockedMeFileOps.java](#) does all File Operations used in the application

Recursion, for loop, File api, Arrays are mainly utilized in this Class

LockedmeConstants.java

holds some constant strings as name suggests

Program Execution and User Interactions

As mentioned previously you can clone and run the project in any Java IDE. Program runs in console and allows user to provide input through keyboard.

Some of the user interactions looks like below

Application Info and Main Menu

```

C:\Program Files\Java\jdk-11.0.17\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
qeqweqwe\asdasf.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

```
4.Navigate back to main menu
4
Please choose an option from below main menu:
1.Retrieving the file names in an ascending order
2.Business Operations
3.Close the application
3
Closing the application...

Process finished with exit code 0
```

