

Specification Document

1. Project Details:

A 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. The company wants a secure a digital locker to keep their files safely. Company wants following operations to be performed.

- Generic features and three operations:
 - 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 option to close the current execution context and return to the main context
- Option to close the application

2. Developer's Detail:

Company or Organization: N. B. Navale Sinhgad College of Engineering, Solapur(MH)
Name: Mr. Pottigar Vinayak Vidyasagar
Designation: Assistant Prog., Department of Computer Science and Engineering.
Experience: 17

3. Product's capabilities:

The digital Product named LockedMe.com provides following capabilities

- 3.1.1 User Signup.
- 3.1.2 User Login.
- 3.1.3 User Logout.
- 3.1.4 See the user Profile.
- 3.1.5 Add a file to a digital locker.
- 3.1.6 Delete a user Specific file from a digital locker.
- 3.1.7 Search a user Specific file from a list.
- 3.1.8 Display the user specific files in Ascending Order from the available list

4. Appearance:

It's a simple menu driven application providing all the above capabilities.

5. User Interactions:

It's a Command Line application.

6. Number and duration of sprints required

3 Sprints Required. Please find the supportive document of sprint planning.

7. Java Concepts being Used

The project will implement all the following Java concepts

7.1 Class

- 7.2 Object
- 7.3 Encapsulation
- 7.4 Polymorphism (Runtime)
- 7.5 Static Variable usage
- 7.6 Tree Set and HashSet Data Structures
- 7.7 Packages
- 7.8 File Handling
- 7.9 Exception Handling
- 7.10 Modular Programming
- 7.11 Interface

Ect.

8. Data Structures used with the specific purpose

In this project TreeSet will be used to keep track of files created by the customers as Set does not allow duplicates and it sorts the element by ascending order which is required.

In this project HashSet will be used to store the Customer objects.

9. Minimum Software Requirement

- 9.1 Windows 7/8/10 64 bit OS
- 9.2 Oracle Jdk 11
- 9.3 Eclipse 2020-3
- 9.4 PDF reader for manual

10. Minimum Hardware Requirement:

- 10.1 Intel Pentium 4 processor with 2.2 Ghz.
- 10.2 RAM 2 GB

11. GitHub Link

[git@github.com:VinayakPottigar/phase_one_project_digilocker.git](https://github.com/VinayakPottigar/phase_one_project_digilocker.git)

12. Conclusion and Future Scopes of the Project

The project is designed and developed in Java and it satisfy all the specified requirements.

Future Scope

- 12.1 The Customers can Open following accounts.
- 12.2 Free Account [500MB space, single user for one year]
- 12.3 Level I Account [Normal- 10GB Space, 20 Users] Rs. 500/month
- 12.4 Premium Account [200GB space, unlimited users] Rs. 12000/year

Mr. Pottigar Vinayak V.