**Project Specification Document**

1. **Project Details:**

* Aim to digitize company’s product and chose *LockedMe.com* to develop as a prototyped application

1. **Developer:** Milind Dixit
2. **Digital Locker Business Capabilities:**

* User can create digital locker account
* User can store multiple records in digital locker account
* User can add new records/file
* User can sort record/file
* User can search specific records/files
* User can delete its own specific records/files
* User can have navigation option to close the current execution context and return to the main context
* User can close application
* Admin user can view all files and delete any file/files

1. **Core Java Concepts Used in the Project:**

* Serialization and de serialization
* Collection framework,
* File Handling, Sorting,
* Looping construct
* Access modifiers
* Typecasting
* OOPS concepts like encapsulation
* Flow Control
* Recursion
* Exception Handling

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1. **Architecture diagram / Flow chart of the Application:**

Architecture diagram / Flow chart

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1. **Project User Stories:**
2. As a user, I want LockedMe.com digital locker so that I can store my credentials
3. As Digital locker system, I want to build welcome page with below options so that user can choose an option to procced further with the flow -

1.Register 2. Login 3. Exit

1. As a developer I want to build registration page, so that when new user chooses registration option, user is prompted to enter user id and password
2. As a developer, I want to build login page so that we authenticate user credentials and allow user to enter into the application.
3. As a developer, I want to create an option to exit the application.
4. As a developer I want to create file to store user credentials of registered user
5. As Digital locker system, I want two user roles should be defined in system with their user rights so that user can perform actions as per their user roles configuration
6. As an Admin User, when log in to profile, I want to perform below operations

* view list of all existing users’ files
* search and delete existing users’ file/s
* exit the application

1. As an existing User when log in to profile, I want to perform below operations

* store multiple website credentials
* can view, sort, update or delete any records of its file
* can delete its own file (account)
* exit the application

1. Testing the Java program with different User input. Pushing code to GitHub. Create project specification document with application details, appearance, and user interactions.

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1. **Sprints planned and User stories Mapping**

Planned this whole work in 3 sprints, refer sprint planning with user stories below-

|  |  |  |
| --- | --- | --- |
| **Sprint** | **US no** | **User Story** |
| Sprint 1 | 1 | Create an algorithm to explain the flow of the application. |
| Sprint 1 | 2 | Build welcome page with options to Register, Login and Exit |
| Sprint 1 | 3 | Build registration page to register new user |
| Sprint 1 | 4 | Build login page to enter into the application |
| Sprint 1 | 5 | Develop exit application so user can exit from Login & Registration page |
| Sprint 1 | 6 | Develop flow for creating File to store user credentials of registered user |
|  |  |  |
| Sprint 2 | 7 | Develop User Roles-and-Rights |
| Sprint 2 | 8 | Develop Registered User Flow |
| Sprint 2 | 9 | Develop Admin User Flow |
|  |  |  |
| Sprint 3 | 10 | Testing the Java program with different User input |
| Sprint 3 | 11 | Create specification document with the application steps and write the algorithms. |
| Sprint 3 | 12 | Take screenshots of the output screens. Push code to GitHub repository |

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1. **Link to GitHub Repository:**

* **GitHub Link:**   
  <https://github.com/MilindDixit21/phase1-project/tree/main/src/com/lockedme>
* **Clone git:***git clone git@github.com:MilindDixit21/phase1-project.git*

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1. **How to run project:**

* **Git (clone project)**:   
  *git clone* [*git@github.com:MilindDixit21/phase1-project.git*](mailto:git@github.com:MilindDixit21/phase1-project.git)  
    
  *Run As Java Application* -
* main() method can be found in ***LockerMain*** class under src folder
* *src -> com -> lockedme -> LockerMain.java*

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1. **Output Screenshots**

* Open Eclipse and project folder.
* Go to Run -> Run as Java Application.
* Welcome screen displays with below three menu options for user input.
* User selects 1 for user registration and enters details to register for LockMe.com app.

Text

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* A **userdb.txt** file has been generated to store user login credentials. Which will later authenticate the user during the login to the application.
* Once user registered successfully, a new file gets generated with the **username**. All user related website credentials will be stored in this user specific file

Graphical user interface, text, application

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**User Menu (*Admin*) -**

* User selects ***2*** (Login) from ***Main-Menu***.
* Enters into application successfully (select Y for Admin User).
* USER MENU-DASHBOARD options get displays for Admin user.

**Text

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* Admin User selects ***1***. All existing user Files inside the directory are listed here.

Text

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* Admin User selects ***2*** and enters the user file name to search.
* If the file found, then its location got displayed here.

Text

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* Admin User has right to delete any user account/file.
* Admin User selects ***3***. Enters the file name to delete that file.
* If found, user account/file got deleted

Text

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* Admin User selects ***4***
* From Admin login a user logged into user account as non-admin
* User can select from below user-menu operations to perform:

Text

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* Admin User selects ***5*** from Admin-Menu to exit the application.

Text

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**User Menu (*Non-Admin*) -**

* User selects ***2*** from ***Main-Menu*** & enters into application successfully (select ***N*** for Non-admin User).
* USER MENU-DASHBOARD options get displays for non-admin user.

Text

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* User selects ***1*** to store credentials.
* User can enter multiple sites credentials.

Text

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* A file got generated and user credentials got successfully stored into a user specific file.   
    
  Graphical user interface, text, application, chat or text message

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* User selects ***2*** and a list of all stored site credentials will be displayed here. User must select ***6*** to display records in ascending order.

Text

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* User selects ***3*** and enters the website name and specific site credentials are displayed here.

Text

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* User selects ***4*** and enters the website name to delete site credentials for specific site.

Text

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* User selects ***6*** to see site names in ascending order. all available website records are displayed in ascending order by their site names.

Text

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* Non-admin user can delete its own account(file) only.
* User selects ***7***. Confirmation message got displayed to remove file.
* User entered ***Y*** to confirm delete.
* The user record got deleted.
* User redirected to Welcome screen.

Text

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* The specific user file that contains site credentials is also got removed from the directory.  
  Diagram

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* User can return to Main Menu by selecting ***8***

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* User selects ***9*** from User-menu dashboard to exit from the application

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