

Project Specification Document

1. Project Details:

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

2. Developer: Milind Dixit

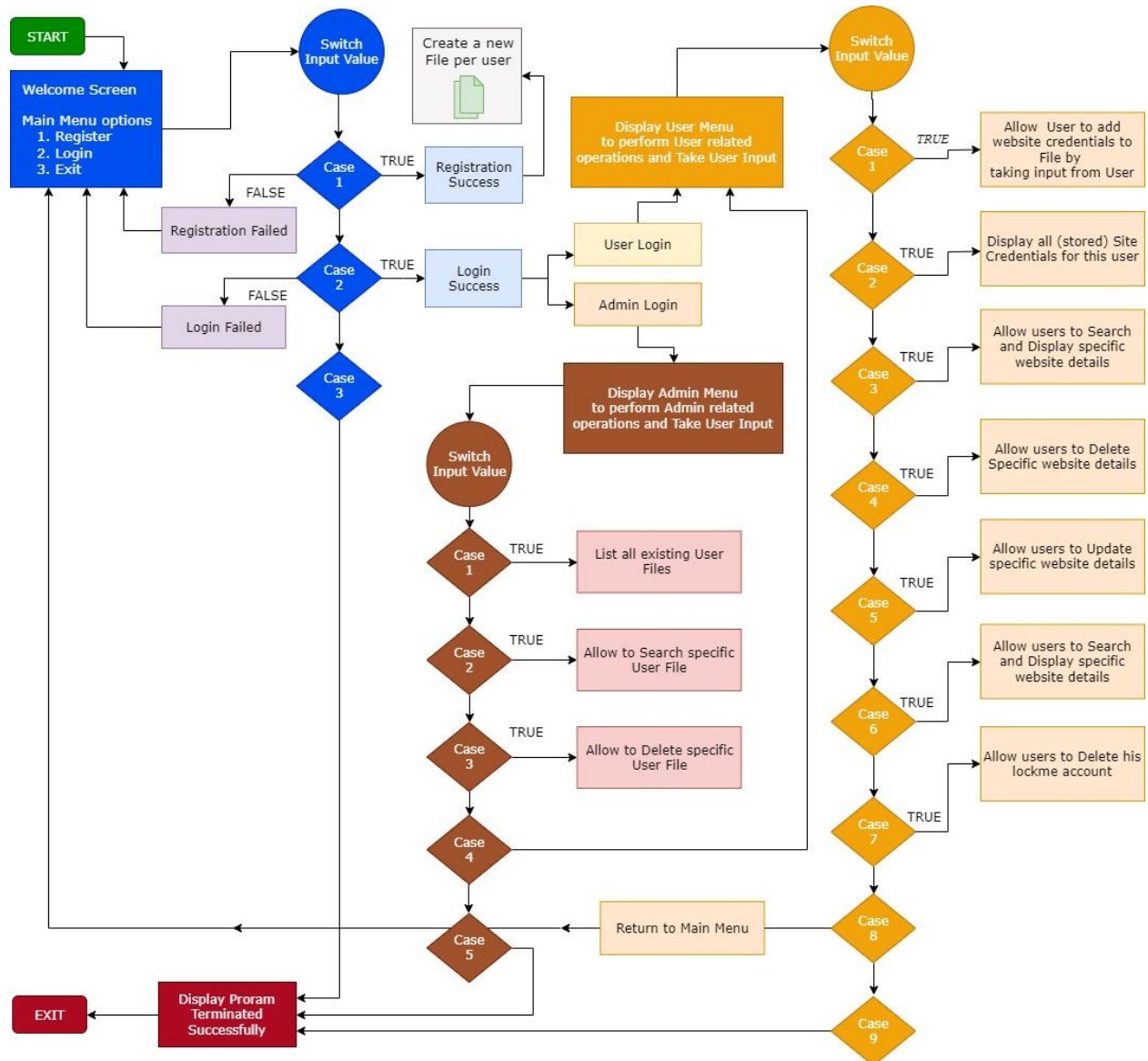
3. Digital Locker Business Capabilities:

- 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

4. 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

5. Architecture diagram / Flow chart of the Application:



6. Project User Stories:

1. As a user, I want LockedMe.com digital locker so that I can store my credentials
2. As Digital locker system, I want to build welcome page with below options so that user can choose an option to proceed further with the flow -
1.Register 2. Login 3. Exit
3. 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
4. As a developer, I want to build login page so that we authenticate user credentials and allow user to enter into the application.
5. As a developer, I want to create an option to exit the application.
6. As a developer I want to create file to store user credentials of registered user
7. 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
8. 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
9. 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
10. Testing the Java program with different User input. Pushing code to GitHub. Create project specification document with application details, appearance, and user interactions.

7. 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

8. Link to GitHub Repository:

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

9. How to run project:

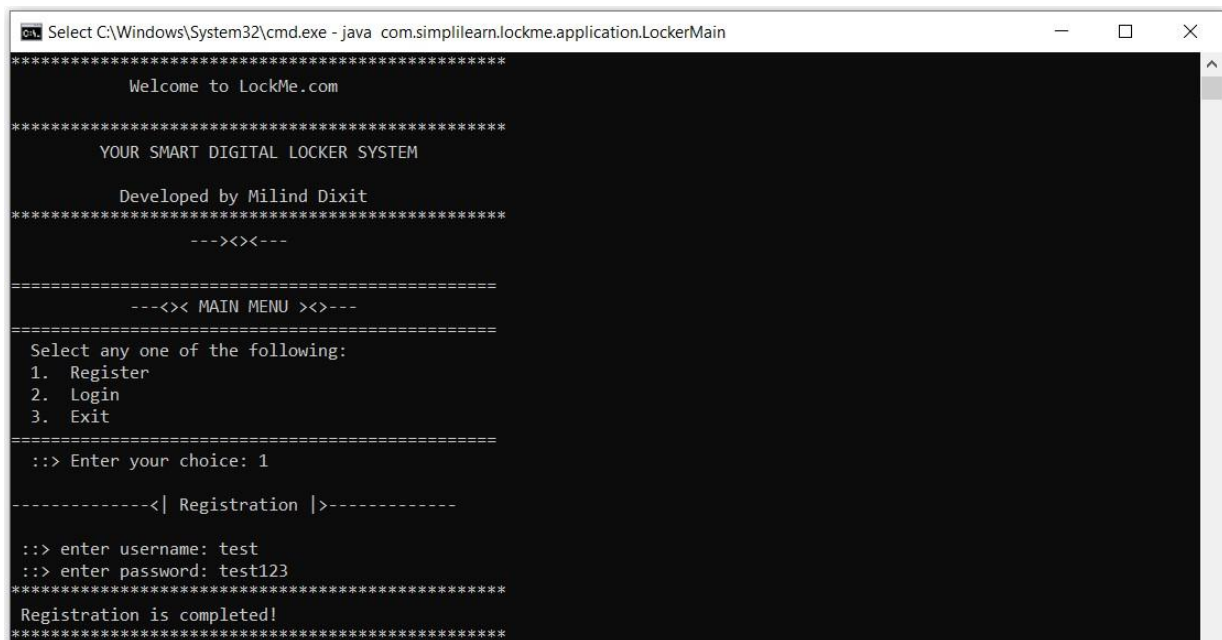
- **Git (clone project):**
`git clone https://github.com/MilindDixit21/phase1-project.git`
-

Run As Java Application -

- `main()` method can be found in **LockerMain** class under src folder
- `src -> com -> lockedme -> LockerMain.java`

10. 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.



```

Select C:\Windows\System32\cmd.exe - java com.simplilearn.lockme.application.LockerMain
*****
Welcome to LockMe.com
*****
YOUR SMART DIGITAL LOCKER SYSTEM
*****
Developed by Milind Dixit
*****
---<>---

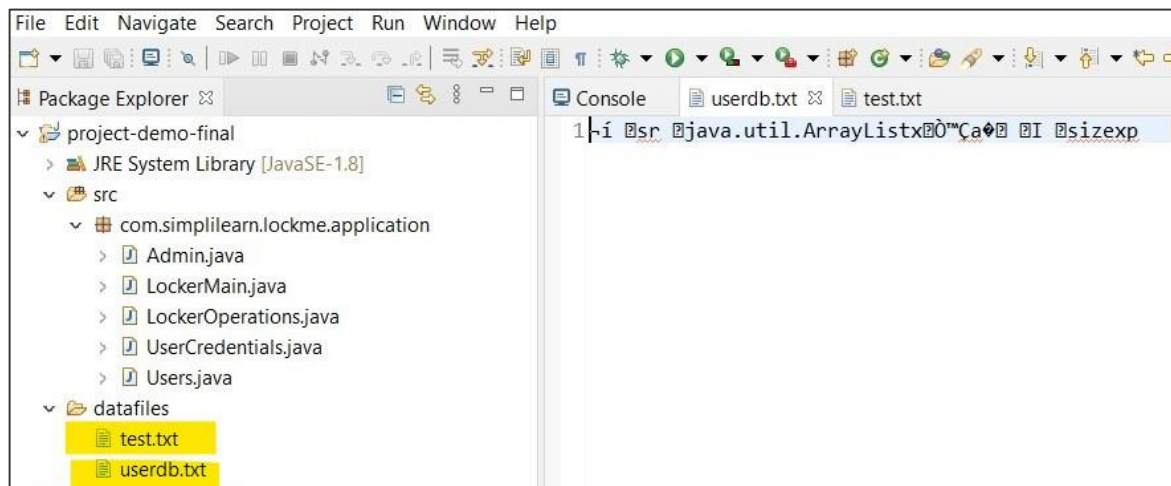
=====
---<> MAIN MENU <>---
=====
Select any one of the following:
1. Register
2. Login
3. Exit
=====
::> Enter your choice: 1

-----<| Registration |>-----

::> enter username: test
::> enter password: test123
*****
Registration is completed!
*****

```

- 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



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.

```

C:\Windows\System32\cmd.exe - java com.simplilearn.lockme.application.LockerMain

=====
::> Enter your choice: 2

-----<| Login |>-----

::> Enter username: john
::> Enter password: john123

Logged in as Admin ? (Y/N) :y

*****
Admin Dashboard Login Successfull!
*****

Hello Admin [john]!

=====
--<> ADMIN MENU ><--
=====

Hello john, select any one of the following:-
1 List all User (files)
2 Search a User (file)
3 Delete a User (file)
4 Go to User Menu-Dashboard
5 Exit

=====
::> Enter your choice :

```

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

```

=====
::> Enter your choice : 1

-----<| List of Files |>-----

The Files in C:\Users\eclipse-workspace\project-demo-final\src\datafiles are:

Eva.txt
john.txt
mike.txt
patrik.txt
test.txt
userdb.txt

Total Number of files: 6

*****
=====

```

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

```

=====
::> Enter your choice : 2

-----| Search File |-----

::> Enter a file name to Search : mike.txt

File Found at location: C:\Users\eclipse-workspace\project-demo-final\src\datafiles

*****

```

- 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

```
=====
::> Enter your choice : 3
-----<> Delete File |>-----

::> Enter a file name to Delete : mike.txt

User File [mike.txt] has been deleted Successfully!

*****
=====
```

- 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:

```
C:\Windows\System32\cmd.exe - java com.simplilearn.lockme.application.LockerMain

-----<> ADMIN MENU ><-----
=====
Hello john, select any one of the following:-
1 List all User (files)
2 Search a User (file)
3 Delete a User (file)
4 Go to User Menu-Dashboard
5 Exit
=====
::> Enter your choice : 4
...Returned to user menu-dashbard!

-----<> USER MENU - DASHBOARD ><-----
=====
Hello john, select any one of the following:
1. Insert User Credentials
2. Display User Credentials
3. Search by site name
4. Delete site credentials
5. Update credentials
6. Display by Site Name - Ascending order
7. delete user account
8. Return to Main Menu
9. Exit the application
=====
::> Enter your choice: █
```

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

```
C:\Windows\System32\cmd.exe

-----<> ADMIN MENU ><-----
=====
Hello john, select any one of the following:-
1 List all User (files)
2 Search a User (file)
3 Delete a User (file)
4 Go to User Menu-Dashboard
5 Exit
=====
::> Enter your choice : 5

*****

THANK YOU FOR VISITING LOCKME.COM

*****
```


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.

```

-----<| Login |>-----

::> Enter username: test
::> Enter password: test123

Logged in as Admin ? (Y/N) :n

*****
User Dashboard Login Successfull!
*****

Hello test!

=====
---<>> USER MENU - DASHBOARD ><---
=====

Hello test, select any one of the following:
1. Insert User Credentials
2. Display User Credentials
3. Search by site name
4. Delete site credentials
5. Update credentials
6. Display by Site Name - Ascending order
7. delete user account
8. Return to Main Menu
9. Exit the application
=====

::> Enter your choice:

```

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

```

-----<| Add user credentials |>-----

::> Enter Site Name: Facebook
::> Enter Facebook Username: testfb
::> Enter Facebook Password: testfb123

Have another user credentials to add (y/n)? :y

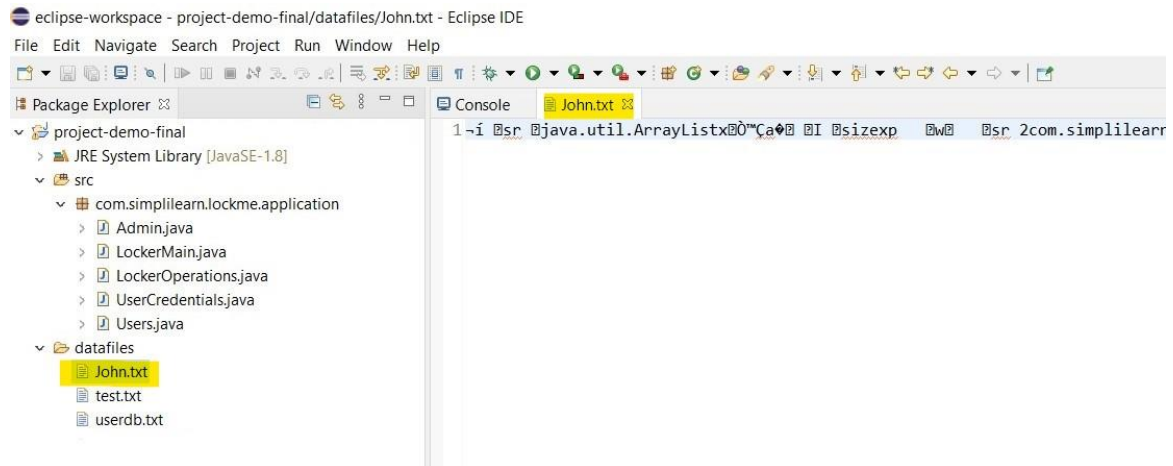
::> Enter Site Name: Instagram
::> Enter Instagram Username: testin
::> Enter Instagram Password: testin123

Have another user credentials to add (y/n)? :n
User Credentials stored for user [test]

*****

```


- A file got generated and user credentials got successfully stored into a user specific file.



- 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.

```

C:\Windows\System32\cmd.exe - java com.simplilearn.lockme.application.Locker...

=====
---<> USER MENU - DASHBOARD ><---
=====
Hello test, select any one of the following:
1. Insert User Credentials
2. Display User Credentials
3. Search by site name
4. Delete site credentials
5. Update credentials
6. Display by Site Name - Ascending order
7. delete user account
8. Return to Main Menu
9. Exit the application
=====
::> Enter your choice: 2

-----<| List of User credentials |>-----

Site name :Facebook      Username :testfb      Password :testfb123
Site name :Instagram     Username :testin      Password :testin123
=====

```

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

```

=====
::> Enter your choice: 3

::> Enter site name to search: facebook

==== FACEBOOK site credentials =====
Username : testfb | Password : testfb123
=====

```

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

```
=====
::> Enter your choice: 4

::> Enter site name to delete site record: facebook

Delete facebook record ? Confirm (Y/N) :y
Site record for 'facebook' deleted successfully!

*****
```

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

```
C:\Windows\System32\cmd.exe - java com.lockedme.LockerMain

=====
::> Enter your choice: 6

-----<| Site names (ascending order) |>-----

FACEBOOK ==> username :testfb password :testfb123
GOOGLE ==> username :testg password :testg123
INSTAGRAM ==> username :testin password :testin123

*****

=====
---<>< USER MENU - DASHBOARD ><---
=====

Hello test, select any one of the following:
1. Insert User Credentials
2. Display User Credentials
3. Search by site name
4. Delete site credentials
5. Update credentials
6. Display by Site Name - Ascending order
7. delete user account
8. Return to Main Menu
9. Exit the application

=====
::> Enter your choice: █
```

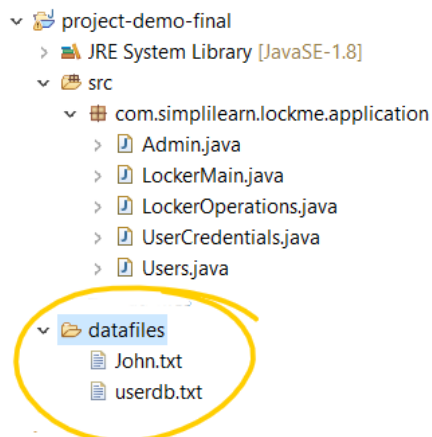
- Non-admin user can delete its own account(file) only.
- User selects **7**. Confirmation message got displayed to remove file.
- User entered **Y** to confirm delete.
- The user record got deleted.
- User redirected to Welcome screen.

```

C:\Windows\System32\cmd.exe - java com.simplilearn.lockme.application.LockerMain
=====
::> Enter your choice: 7
Are you sure to delete your user account ? (Y/N) : y
User Record updated!
User File [test.txt] has been deleted Successfully!
=====
Welcome to LockMe.com
=====
YOUR SMART DIGITAL LOCKER SYSTEM
Developed by Milind Dixit
=====
--><>---
-----
---<> MAIN MENU ><---
-----
Select any one of the following:
1. Register
2. Login
3. Exit
=====
::> Enter your choice:

```

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



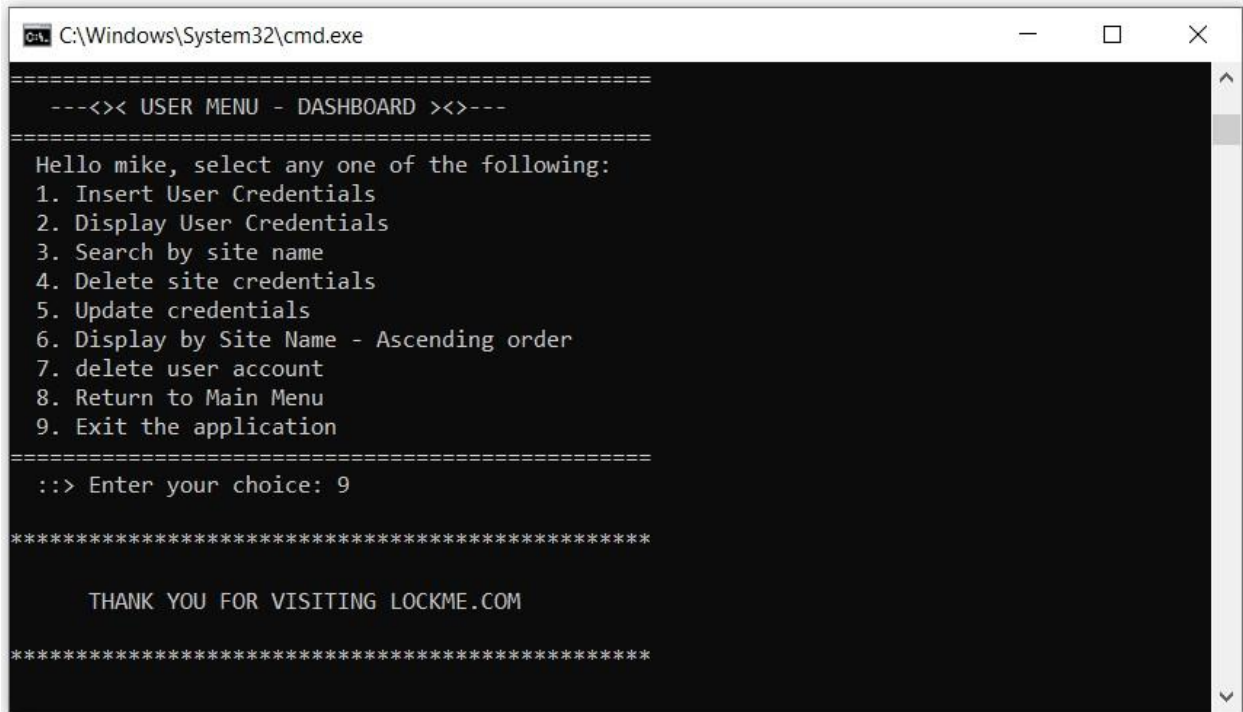
- User can return to Main Menu by selecting 8

```

=====
::> Enter your choice: 8
log out... Returned to main menu!
=====
---<> MAIN MENU ><---
=====
Select any one of the following:
1. Register
2. Login
3. Exit
=====

```

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



```
C:\Windows\System32\cmd.exe

=====
---<>< USER MENU - DASHBOARD ><---
=====
Hello mike, select any one of the following:
1. Insert User Credentials
2. Display User Credentials
3. Search by site name
4. Delete site credentials
5. Update credentials
6. Display by Site Name - Ascending order
7. delete user account
8. Return to Main Menu
9. Exit the application
=====
::> Enter your choice: 9

*****

THANK YOU FOR VISITING LOCKME.COM

*****
```
