**Project Specification Document**

**Project Name:** Lock me

**Project Details:**

It is a user information management system. It gives user to store the username and password of each of the websites that he/she has registered. It also gives the user a capability to search all the username and passwords given to each website.

**Project Technology:**

Eclipse IDE is being used for execution of the Java code.

Git hub is being used to store the code.

**Sprint Details of the project**

Here a basic structure of the application was developed, with the capability of storing and fetching the details of the user when called.

The application has three layers namely, The presentation layer, the Authentication layer and the data storing layer.

The presentation layer is the console, and the void main of the application corresponds to the presentation layer. It is responsible for taking the inputs from the user as well as showing the outcome/output to the user.

The authentication layer is responsible for checking the input from the user if it is correct or not.

The data storing layer, where the text file is created to store all the user details.

**Application Logic**

Classes used to build the application:

|  |  |  |
| --- | --- | --- |
| Sr. No. | Name | Remarks |
| 1 | user | This class consists of the username and password of the user. |
| 2. | userinfo | This class consists of the site name, user name, password that gets stored in the text file. |
| 3 | serialization | This class helps in converting the object into the byte stream and storing it into the text file. |
| 4 | deserialization | This class helps in retrieving back the text file and displaying the details of the user stored in it. |

**Core concepts used in the project**

Java concepts implemented in this application:

1. Classes
2. Constructors
3. Data Encapsulation
4. For, While, Switch Case, If-Else ladder.
5. File class
6. Exception Handling

**Links to the GitHub repository**

<https://github.com/rakshavinod/Java-FSD-Phase1-Project.git>