

Lab 6 Design Document

Methods

LoginDemo

- **main:** Entry point to the program. Should read all the user names and passwords from user.txt file, initialize User objects for each of them, and add it to an array list of users.

Login

- **showWelcomeMessage:** Called when a user logs in successfully. Opens a new window with a welcome message.

User

- **getUsername:** Gets the username of the user
- **matches:** Checks if the given username and password match those that were set.
 - Username is not case sensitive
 - Password is case sensitive

UserManager

- **loadUsers:** Loads all the users from users.txt into an array list.
- **getUser:** Takes a username, attempts to return a user from the list. If no user is found, return null

Public Interface

LoginDemo

```
public static void main();
```

Login

```
public Login(UserManager manager);  
public void showWelcomeMessage(User user);
```

User

```
public User(String username, String password);  
public String getUsername();  
public boolean isCorrectPassword(String password);
```

UserManager

```
public void loadUsers();  
public User getUser(String username);
```

Instance Variables

Login

```
private int remainingAttempts;
```

User

```
private String username;  
private String password;
```

UserManager

```
private ArrayList<User> users;
```