

CRC model

Account

Responsibilities

- Has a username
- Has a password
- Has a unique userID
- Has a login history
- Can identify itself as an Admin/non-Admin account.

Collaborations

LoginLog

Responsibilities

- Has an associated Date
- Can be identified as a successful / failed login attempt

Collaborations

AccountManager

Responsibilities

- Has a list of all Accounts
- Has an Account which is designated to be the active Account
- Can create a new Account
- Can create a new AdminAccount
- Can delete non-Admin Accounts
- Can temporarily ban non-Admin accounts
- Can match a username to a password

Collaborations

- Account
- LoginHistory

LoginHistory

Responsibilities

- Has a map between usernames and their associated login histories
- Can get the login history of a given username
- Can add a login event to a username

Collaborations

- LoginLog

LoginSystem

Responsibilities

- Can create a new Account with the help of an AccountManager
- Can display a login UI, which takes user input to do certain tasks
- Can log into an Account with the help of an AccountManager

Collaborations

- AccountManager

MainMenu

Responsibilities

- Has an active Account
- Can display a menu UI, which takes user input to do certain tasks
- Can log out of an Account
- AdminAccounts can delete and ban (temporarily) non AdminAccounts, and create new AdminAccounts with the help of an AccountManager
- Accounts can display their login history

Collaborations

- AccountManager