

CRC Cards - Phase 0

Group 249

abstract

User

AdminUser, NonAdminUser

- store, getter, and setter for username, password, login history, ban status, admin status
- Abstract class to ensure only the subclasses can be instantiated.

- AdminUser
- NonAdminUser
- UserManager
- UserData

User

AdminUser

- Inherits the User abstract class
- Admin Indicator set to true

- User
- UserManager

User

NonAdminUser

- Inherits the User abstract class
- Admin Indicator set to false

- User
- UserManager

UserData

- Stores a list of all user instances
- Is responsible for storing, getting, updating and displaying the list.

- User
- UserManager
- DataManager
- Main
- BanUser
- DeleteUser
- CreateUser
- LoginMenuDisplay

UserManager

- Stores a list of users from userData.
- UserManager is responsible for deleting, banning, creating, validating user attributes, and changing the password for a user

- UserData
- User
- DeleteUser
- BanUser
- CreateUser
- UserLogin
- LoginMenuDisplay

UserLogin

- | | |
|---|--|
| <ul style="list-style-type: none">- Responsible for taking in and storing username and password inputs during runtime.- Calls UserManager to login the user. | <ul style="list-style-type: none">- UserManager- LoginMenuDisplay |
|---|--|

CreateUser

- Responsible for taking in and storing username and password inputs during runtime.
- Calls UserManager to create a user

- UserManager
- UserData
- LoginMenuDisplay

BanUser

- Displays menu options on who can be banned/unbanned
- Responsible for taking in and storing username and password inputs during runtime.
- Uses UserManager to ban or unban the user

- UserManager
- UserData
- LoginMenuDisplay

DeleteUser

- Displays menu options on which users can be deleted
- Responsible for taking in and storing username and password inputs during runtime.
- Uses UserManager to delete the user

- UserManager
- UserData
- LoginMenuDisplay

LoginMenuDisplayer

- Use Presenter to format menu text and display them.
- Takes User input and traverses the program menus
- Menu for login/create account
 - Calls UserLogin/CreateUser
- Menu for Admins
 - Calls CreateUser
 - DeleteUser
 - BanUser
 - UserManager
- Menu for non-admins
 - Calls UserManager
- Uses DataManager to save user data to external source on termination of program

- UserManager
- CreateUser
- DeleteUser
- BanUser
- Presenter
- User
- AdminUser
- NonAdminUser
- UserManager
- UserData
- UserLogin
- DataManager
- Main

DataManager

- Reads data from external file (.csv) and uses UserManager to create the list of all User instances
- Stores data to the external file (.csv)

- Main
- UserData
- LoginMenuDisplay

Presenter

- Used to format menu and out displays for the user

- LoginMenuDisplay

Main

- Used to run the program
- Uses DataManager to read user information from external database (.csv)
- Launches Log In Menu using LoginMenuDisplay

- DataManager
- UserData
- LoginMenuDisplay