

AdminFacade		UserFacade
<ul style="list-style-type: none">• Ban a given user• Create a given user• Delete a given user		<ul style="list-style-type: none">• UserRepository• AdminUser• BanUserUseCase• CreateUserUseCase
AdminUser		User
<ul style="list-style-type: none">• Knows that they are an admin user.		<ul style="list-style-type: none">• User
BanUserUseCase		
<ul style="list-style-type: none">• Ban a provided user		<ul style="list-style-type: none">• UserRepository• BasicUser• User

BasicUser		User
<ul style="list-style-type: none">• Knows if they are banned.• Knows until when they are banned.• Set the date-time they are banned until.• Log ban events.		<ul style="list-style-type: none">• IBannableUser• User

ChangeUserUseCase	
<ul style="list-style-type: none">• Validate a user's password.• Change a user's password	<ul style="list-style-type: none">• User

CLIControllerPresenter

- Print user options and app state to terminal interface.
- Register user input.
- Interpret user input as desired user actions.
- Send user input actions to corresponding use case classes.
- Manage which actions user has permissions to use.
- Manage the current activate user (and whether there is one).
- Allow user to log in.
- Start-up application.
- Exit application.
- Execute main-loop of application.

- DataRetriever
- DataSaver
- UserRepository
- LoginUserCase
- UserFacade
- AdminFacade
- Main

CreateUserUseCase

- Create a user
- Delete a user

- UserRepository
- User
- AdminUser
- BasicUser

DataRetriever

- Read admin user data from csv files.
- Read basic user data from csv files.
- Read historical event data from csv files.

- UserRepository

DataSaver

- Save all user and event data to csv files.

- UserRepository
- BasicUser
- AdminUser
- User

Interface

IBannableUser

- Know if user is banned
- Know until when the user is banned
- Set until what date-time the user is banned

- BasicUser

LoginUseCase

- Validate a user's log in credentials.
- Check if a user is banned
- Log a user in.
- Log a user log in event.

- UserRepository
- User
- BasicUser

Main

- Execute the main-loop of the application

- CLIControllerPresenter

Triplet

- Store a generic triple-value
- Get first value of stored values
- Get second value of stored values
- Get third value of stored values

User		AdminUser
<ul style="list-style-type: none"> • Set their own password • Get their own password • Validate whether a given password is equal to their own • Get whether they are logged in • Set their logged-in state. • Get whether they are an admin • Get all of their related events. • Get all of their events of a certain type • Get all of their events within a certain date range. • Log an event • Set their username • Get their username 		<ul style="list-style-type: none"> • AdminFacade • AdminUser • BanUserUseCase • BasicUser • ChangeUserUseCase • CreateUserUseCase • DataSaver • LoginUseCase • UserFacade • UserRepository

UserFacade		AdminFacade
<ul style="list-style-type: none"> • Log a user out • Log a user logout event • Get the username of user • Get the admin status of user • Get all events of user • Get a the user repository storing the user. • Change the user's password 		<ul style="list-style-type: none"> • User • UserRepository • ChangeUserUseCase

UserRepository

- Store all user data.
- Reset all user data from seed data.
- Retrieve a stored user by username
- Retrieve all stored users
- Retrieve all admin or non-admin users
- Store a new user
- Remove a stored user

- User
- AdminUser
- BasicUser