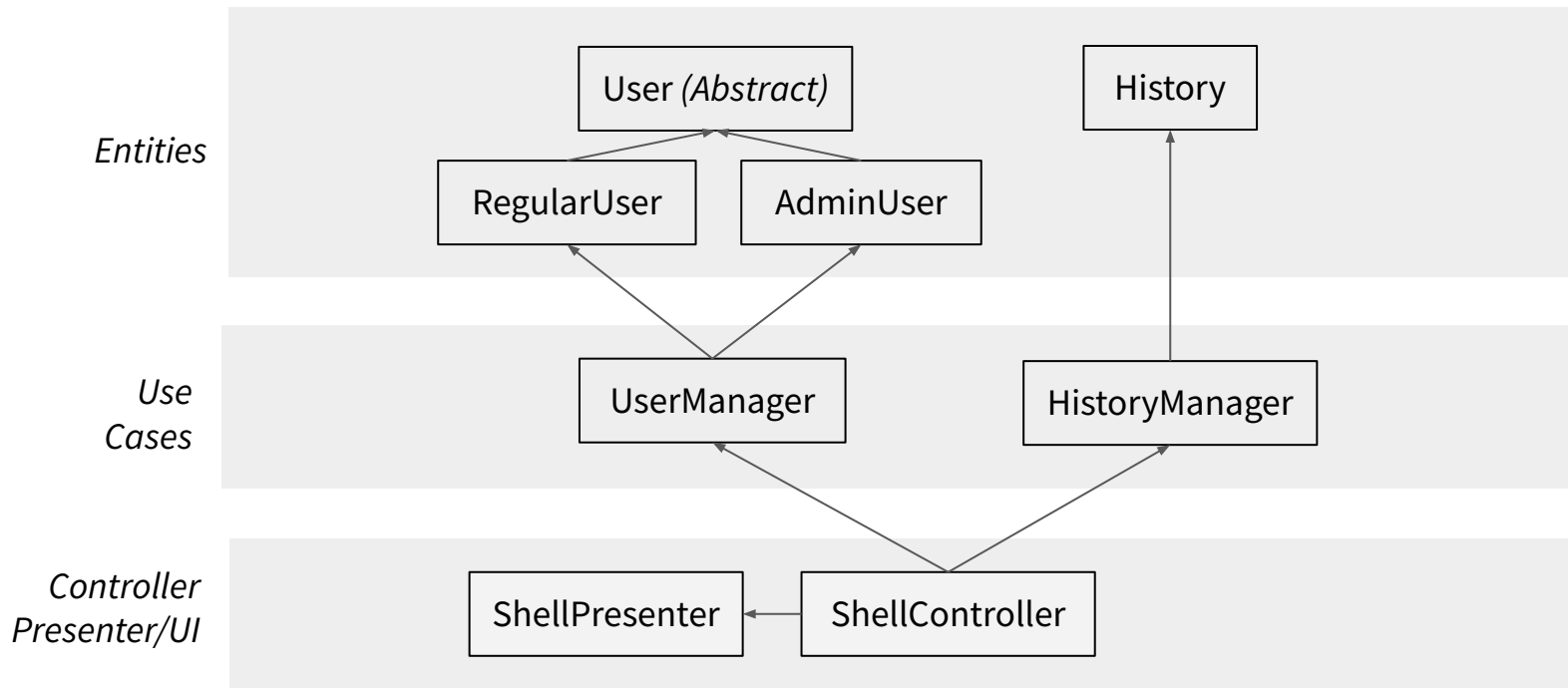


Phase 0, CRC Cards

CSC207, Group 0253



Summary of Structural Dependencies



Entity | Abstract Class **User**

Responsibilities

- ❖ Stores username (String), password (String), plus getters/setters
- ❖ Method to check if a given username/password pair is equal to this user's pair
- ❖ Abstract method isAdmin()

Extended by

- ❖ RegularUser
- ❖ AdminUser

Entity | Class **RegularUser** extends User

Responsibilities

- ❖ Stores isBanned (boolean) to show whether the user is banned. Getters/setters
- ❖ Implements isAdmin() to return false to show that it is not an Admin User

Collaboration

- ❖ UserManager

Entity | Class **AdminUser** extends User

Responsibilities

- ❖ Implements isAdmin() to return true

Collaboration

- ❖ UserManager

Entity | Class **History**

Responsibilities

- ❖ Stores action (String), username (String), represents a single recorded instance of some activity
- ❖ Getters for the above, plus .toString()

Collaboration

- ❖ User

Use Case | Class **UserManager**

Responsibilities

- ❖ Stores users, a mapping of usernames (String) to Users (ie. RegularUser or AdminUser)
- ❖ Stores currUser (currently-logged in user)
- ❖ Methods for creating/deleting/banning accounts
- ❖ Methods for logging in/out, checking what user type is logged in, if at all, checking if a user is currently banned

Collaboration

- ❖ User
- ❖ ShellController

Use Case | Class **HistoryManager**

Responsibilities

- ❖ Stores histories, a mapping of timestamps (LocalDateTime) to Historys
- ❖ Methods to get histories in its entirety, or filtering results by username
- ❖ Method to add to histories
- ❖ Method to wipe histories or delete entries in histories by username

Collaboration

- ❖ History
- ❖ ShellController

Presenter | Class **ShellPresenter**

Responsibilities

- ❖ Method to simply display something (ie. print)
- ❖ Methods to print the text for a menu (ie. tell the user what number is what command) and receive an input from the user
- ❖ Method to print text asking the player for an input, and receive an input
- ❖ Method to print text asking the player for command arguments, and receives inputs

Collaboration

- ❖ ShellController

Controller | Class **ShellController**

Responsibilities

- ❖ Stores UserManager, HistoryManager, & ShellPresenter
- ❖ Depending on login status, calls ShellPresenter to print text and prompt the user for inputs.
- ❖ Handles commands by calling HistoryManager and UserManager methods, displays results (or exceptions) via ShellPresenter

Collaboration

- ❖ UserManager
- ❖ HistoryManager
- ❖ ShellPresenter