

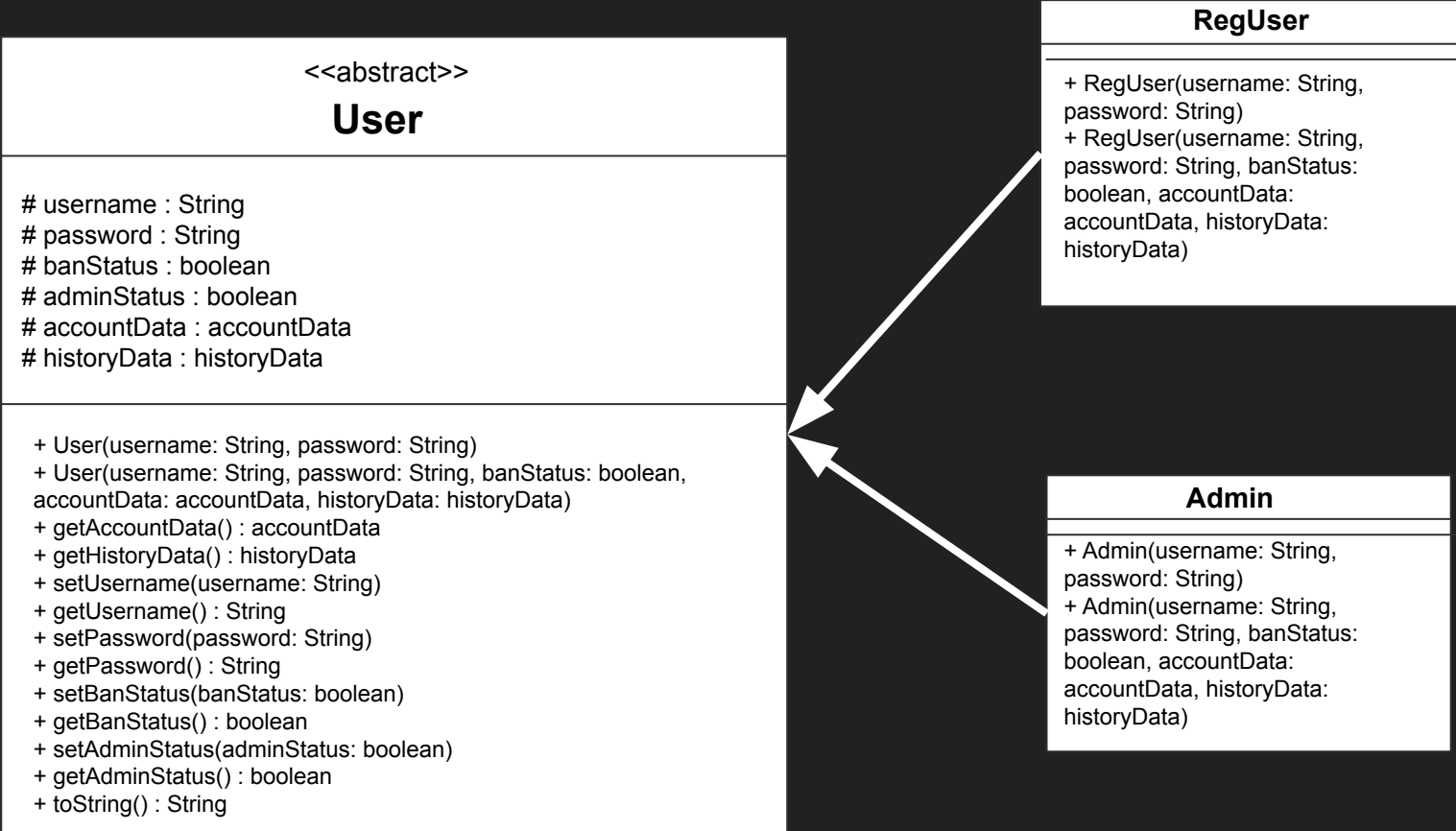
design1

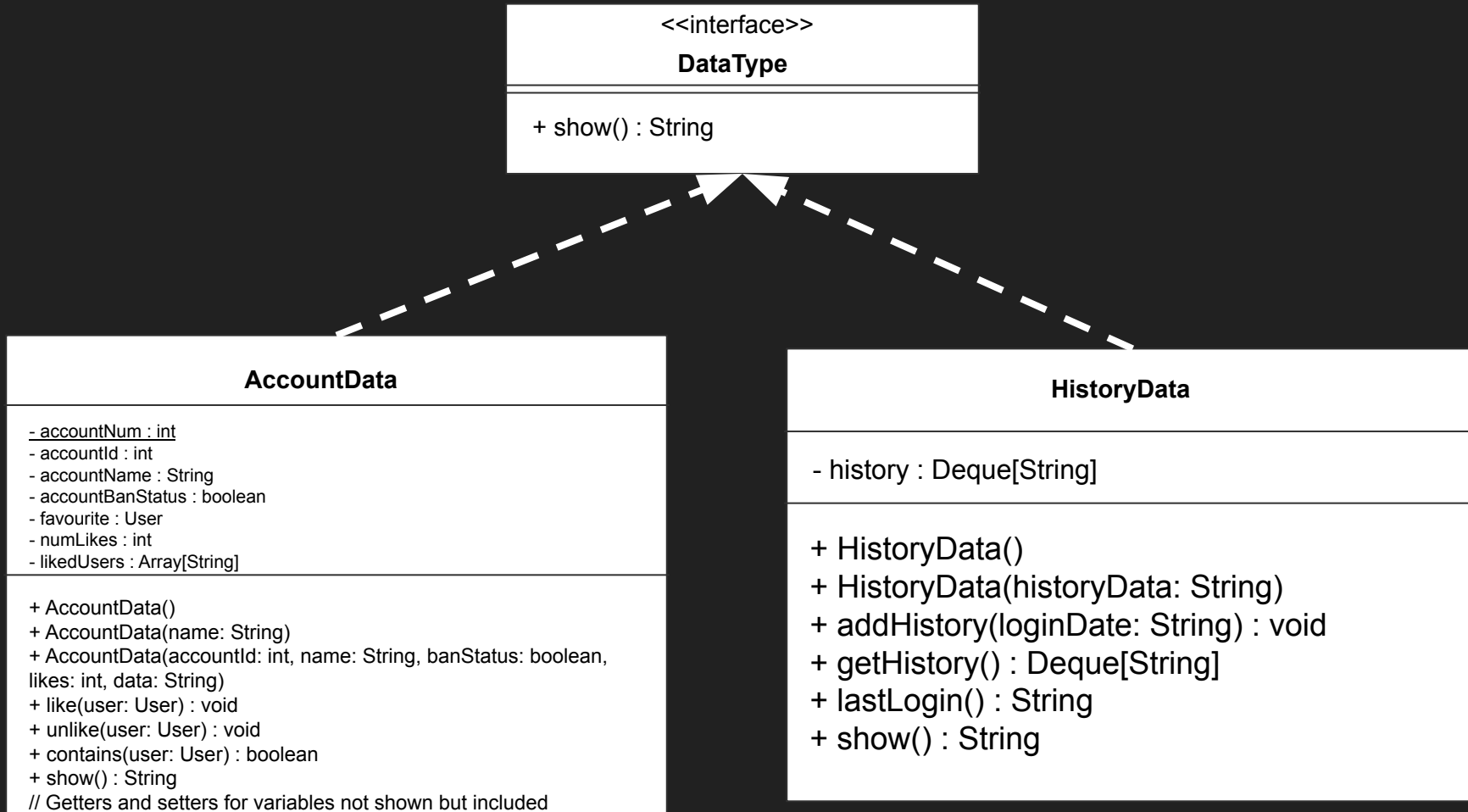
LOGIN/USER SYSTEM

CURRENT DESIGN

(for phase1)

Note: a better design for
User is planned for phase2





IDataManager
+showData(dataObject: Datatype) : void

DataManager
- userBase : IUserBase
+ DataManager(userBase: IUserBase) + getAccountData(user: String, presenter: IDataManager) : void + getHistoryData(user: String, presenter: IDataManager) : void

UpdateUser

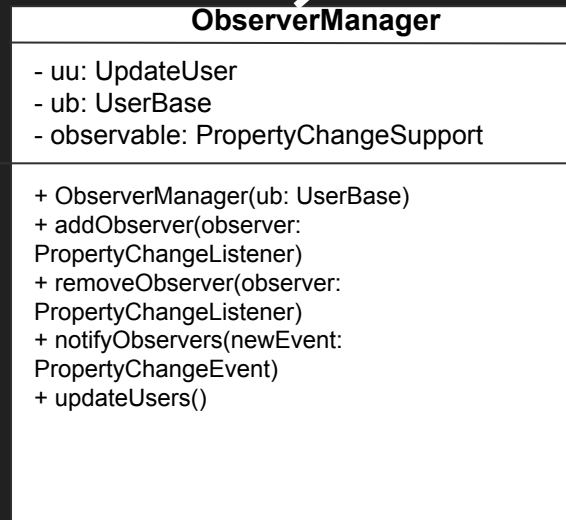
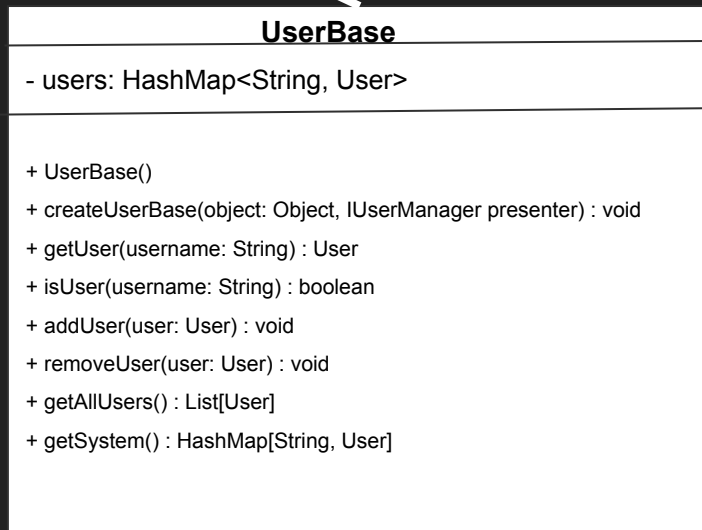
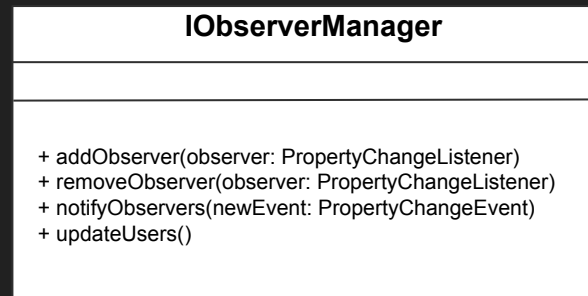
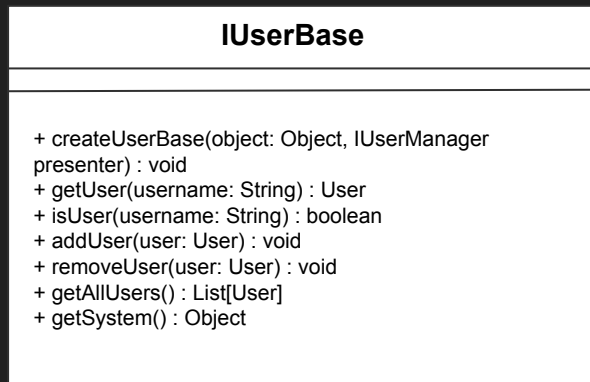
- ub : UserBase

+ UpdateUser(ub: UserBase)
+ newEvent() : PropertyChangedEvent

FollowManager

- userBase : IUserBase
- obMan : IObservableManager

+ FollowManager(userBase: IUserBase, obMan: IObservableManager)
+ followUser(currentUser: String, username: String, presenter: IFollowManager) : boolean
+ unfollowUser(currentUser: String, username: String, presenter: IFollowManager) : boolean
+ getFollowers(user: String, presenter: IFollowManager) : void
+ getFollowing(user: String, presenter: IFollowManager) : void



UserManager

- userBase: IUserBase
- obMan: IObservableManager

+ createRegUser(username: String, password: String, presenter: IUserManager): boolean
+ createAdminUser(username: String, password: String, presenter: IUserManager, currentUser: User): boolean
+ deleteUser(system: ISystem, presenter: IUserManager, username: String, currentUser: User): boolean
+ addUser(user: User, presenter: IUserManager, system: ISystem): boolean
+ makeAdmin(username: String, presenter: IUserManager, currentUser: User): String
+ banUser(username: String, presenter: IUserManager, currentUser: User): boolean
+ verifyUser(username: String, password: String, presenter: IUserManager): boolean
+ toString(): String
+ getData(): Object

LoginManager

- currentUser : User
- obMan: IObservableManager

+ LoginManager(obMan: IObservableManager)
+ recordLogin(User user)
+ login(User user)
+ logout(ILoginManager presenter)
+ getCurrentUser() : User
+ setCurrentUser(User user)

AccountManager

- userBase: IUserBase
- obMan: IObservableManager

+ AccountManager(userBase: IUserBase, obMan: IObservableManager)
+ likeUser(username: String, presenter: IAccountManager, currentUser: User): boolean
+ unlikeUser(username: String, presenter: IAccountManager, currentUser: User): boolean
+ checkLikes(username: String, presenter: IAccountManager): boolean
+ addFavourite(user1: String, user2: String, presenter: IAccountManager): boolean
+ checkFavourite(user: String, presenter: IAccountManager): boolean
+ setPet(username: String, petName: String)

LoginSystem

- userBase: IUserBase
- um : UserManager
- lm : LoginManager
- presenter : IPresenter
- sa : ISystem

- + LoginSystem(userBase: IUserBase, um: UserManager, lm: LoginManager, presenter: IPresenter, sa: ISystem)
- + login(username: String, password: String) : boolean
- + adminLoggedIn() : boolean
- + logout()

FollowController

- fm: FollowManager
- presenter : IPresenter
- sa : ISystem

- + FollowController(fm: FollowManager, presenter: IPresenter, sa: ISystem)
- + getFollowing(user: String)
- + getFollowers(user: String)
- + follow(currentUser: String, otherUser: String) : boolean
- + unfollow(currentUser: String, otherUser: String) : boolean

UserController

- um : UserManager
- presenter : IPresenter
- sa : ISystem

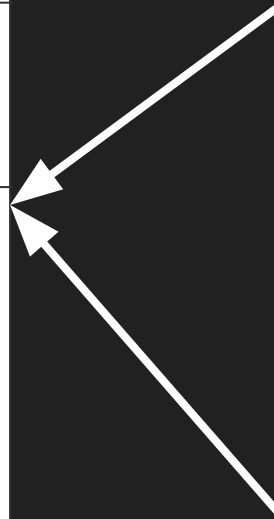
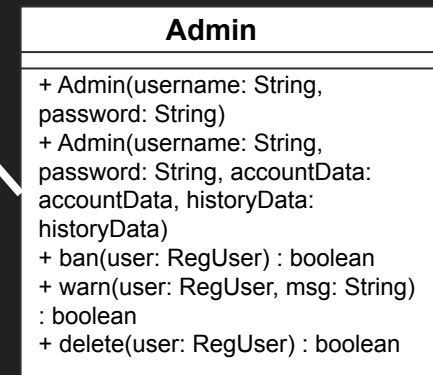
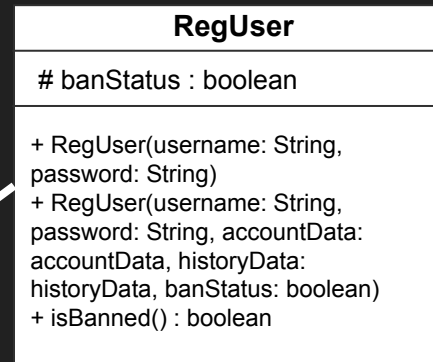
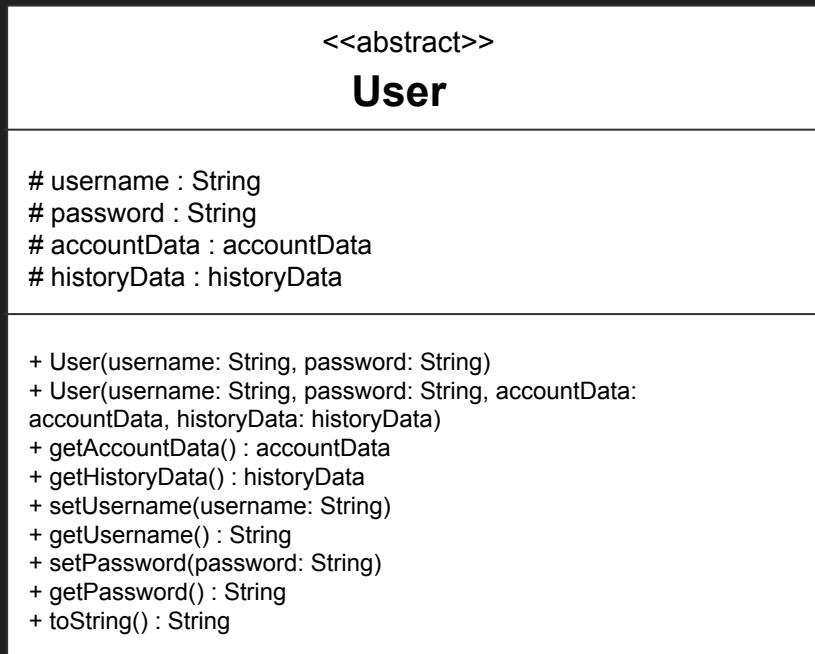
- + UserController(presenter: IPresenter, um: UserManager, sa: ISystem)
- + banUser(username: String, currentUser: String) : boolean
- + createAdminUser(username: String, password: String, currentUser: String) : boolean
- + createRegUser(username: String, password: String) : boolean
- + deleteUser(username: String, password: String, currentUser: String) : boolean

AccountController

- dm: DataManager
- am: AccountManager
- presenter: IPresenter

+ AccountController(presenter: IPresenter, am: AccountManager, dm: DataManager)
+ showHistoryData(username: String)
+ showAccountData(username: String)
+ likeUser(username: String, currentUser: User): boolean
+ unlikeUser(username: String, currentUser: User): boolean
+ checkLikes(username: String): boolean
+ favouriteUser(user1: String, user2: String): boolean
+ checkFavourite(user: String): boolean

NEW DESIGN
(for phase2)



OTHER PLANNED
UPGRADES (for
phase2)

AdminManager and AdminController

Manages all admin functionality

- Distinct from UserManager
- Single responsibility principle
- Reduces bloated code smell
- Can incorporate a facade design pattern...