User Class

data: string
name: string
username: string
password: string
followers: User*
numFollowers: int
posts: Post*
notifications : Notification*
following: User*
followers: User*
followRequests: User*
profileInfo: string

User(username: string,
password : string);
~User();
setUsername(); string
setPassword(): string
setProfileInfo(); string
getUsername(); string
getPassword(); string
getPosts(); string
getProfileInfo(); string
getNotifications(); *Notification
getFollowing(): User*
addFollower(User *follower)
removeFollower(User *request)
viewFollowing();
viewPosts();

Social Media Class

users: User*

SocialMedia();
~SocialMedia();
addUser(User *user);
removeUser(User *user);
getUsers();
followUser(User *follower, User
*userToFollow);
bool isUserInFile(&filename:
string, &username:string
);
saveToFile(&filename:string
);
loadToFile(&filename :string
);
authenticate(&username,
&password : string);

Post Class

author: User*
postContent: string

Post(postContent: string);
~Post();
setContent(): string
getPostContent(); string
getAuthor(): User*

Notification Class

notifContent(): string

Notification(notifContent:
string);
~Notification();
setMessage(): string
getMessage(); string
getUser(): User*

DynamicList Class

items: vector<T>

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add(item: T)
remove(item:T)
getItems(): vector<T>