Youtube Class Diagram

User

+ Integer id

+ Video[] searchVideo(query: String)
+ void viewVideo(Video video)
+ void createRegisteredUser(String username, String email, String password)
+ Authenticatable authenticateLogin(String username, String password)

Visitor

Registered User

+ String username
+ String email
- String password
+ User[] subscribers
+ User[] subscribed_to
+ File profile_image
+ File banner_image
+ Date creation_date

+ void subscribe(User user)
+ void likeVideo(Video video)
+ void unlikeVideo(Video video)
+ void commentVideo(Video video, String content)
+ void deleteComment(Comment comment)
+ void uploadVideo(String title, File video, String description)
+ void deleteVideo(Video video)
+ User[] getSubscribers()
+ Integer getSubscribersCount()
+ User[] getSubscribedTo()
+ Integer getSubscribedCount()

subscribe

Video

+ Integer id
+ String title
+ User owner
+ Date creation_date
+ File video
+ String description

+ Comment[] getComments()
+ Integer getLikes()

Comment

+ Integer id
+ Date creation_date
+ User user
+ Video video
+ String content

Like

+ Integer id
+ Date creation_date
+ User user
+ Video video

Administrator

+ moderateContent(Integer id, Integer operation_code)