Class Diagram
Social Media Platform

SocialMediaPlatform

+platformID: String

+users: List

+posts: List

+messages: List

+notifications: List

+registerUser()

+loginUser()

+managePosts()

+sendMessage()

+generateReport()

ExternalSystem

+systemID: String

+serviceType: String

+serviceURL: String

+authenticateUser()

+storeMedia()

Notification

+notificationID: String

+userID: String

+type: String

+content: String

+timestamp: Date

+createNotification()

+sendNotification()

Session

+sessionID: String

+userID: String

+loginTime: Date

+logoutTime: Date

+createSession()

+terminateSession()

Feed

+feedID: String

+userID: String

+posts: List

+loadFeed()

+refreshFeed()

Authentication

+authID: String

+authType: String

+authURL: String

+validateUser()

User

+userID: String

+username: String

+email: String

+profilePicture: String

+bio: String

+registrationDate: Date

+register()

+login()

+updateProfile()

+viewFeed()

Analytics

+analyticsID: String

+metrics: String

+generateAnalytics()

Post

+postID: String

+userID: String

+content: String

+timestamp: Date

+likesCount: int

+commentsCount: int

Message

+messageID: String

+senderID: String

+receiverID: String

+content: String

+timestamp: Date

Admin

+adminID: String

+name: String

+email: String

+role: String

+moderateContent()

Relationship labels:

"1 * notifications"

"uses"

"loads"

"1 * users"

"1 * posts"

"provides"

"sent to"

"tracks"

"creates"

"aggregates"

"writes"

"sends"

"between"

"inherits"

"bans"

"used by"

+commentsCount: int

+createPost()

+editPost()

+deletePost()

+timestamp: Date

+sendMessage()

+deleteMessage()

+moderateContent()

+manageUsers()

+viewReports()

"1 * comments"

"has"

"uploads media"

"manages"

Comment

+commentID: String

+postID: String

+userID: String

+content: String

+timestamp: Date

+addComment()

+deleteComment()

Like

+likeID: String

+postID: String

+userID: String

+addLike()

+removeLike()

FileManager

+fileID: String

+fileName: String

+fileType: String

+uploadDate: Date

+uploadFile()

+deleteFile()

Report

+reportID: String

+adminID: String

+content: String

+timestamp: Date

+createReport()

+viewReport()