Class Diagram

- User Account
- WhatsApp Message (GroupMessage, Personal Message)
- w/Status
- Call (1. Voice, 2. Video Call)
- w/Media
- w/Community (Combine Groups)
- Settings
- /w/User()

w/Media
- media-type *
- file_size
- file_name
- file_path
+ upload()
+ download()

w/Community
- name : string
- members : UserAccount
- admin : UserAccount
+ remove_member()
+ add_member()
+ promote_member()

Setting
- notifications: Sys_notification
- privacy: Privacy()
- theme: SystemTheme
- Account: UserAccount
+ set_Notification()
+ set_Privacy()
+ set_theme
+ set_Account
+ Help

Privacy
- status: w/Status
- profilePhoto: UserAccount.profilePic
- statusPrivacy: w/Status.Privacy()
+ set_statusPrivacy()
+ set_postPhoto()

UserAccount
- UserName: String
- phone_number: Long
- contact : UserAccount
- profilePic ; png()
- UserBio : String (BG)
+ CreateUser()
+ Review UserUpload()
+ upload status()
+ Add Contact (contact phonenumber) : void
+ send Message(): void
+ create Group()()
+ Make call(): void
+ Create Community: void

Message
- SenderUser()
- ReceiverUser()
- Message Text String()
- voice Message, & Image upload()
- Image : jpeg
- Document.pdf
- location(): Privacy()
+ Send(): void
+ Display(): void
+ delete(): void

GroupMessage
- group-id
- group_name
- members
+ add_member()
+ remove_member()

Personal Message
- sender : UserAccount
- receiver_id : UserAccount

w/Status
- StatusText String()
- privacy: setting()
- expiration
+ setPrivacy()
+ delete Status(): void
+ Expire Status(expiration): void

Call
+ Contact Name : User Account
+ Duration : time()
- Start_time @ : time()
- End_time : time()
+ Start_Call()
+ End_Call()
+ Mute_Call()
+ Picture()
+ add(Object)

Video_Call
- Front Camera
- Back Camera
+ Disable_Camera()
+ Enable_Camera()

Audio_Call