

User:

```
FUNCTION User()
```

```
    userID = " "
```

```
    profile = new Profile()
```

```
    displayName = " "
```

```
    userStatus = "offline"
```

```
    email = " "
```

```
    profilePhoto = NULL
```

```
END FUNCTION
```

```
FUNCTION getUserID() RETURNS String
```

```
    RETURN userID
```

```
END FUNCTION
```

```
FUNCTION getProfile() RETURNS Profile
```

```
    RETURN profile
```

```
END FUNCTION
```

```
FUNCTION getDisplayName() RETURNS
```

```
String
```

```
    RETURN displayName
```

```
END FUNCTION
```

```
FUNCTION getUserStatus() RETURNS
```

```
enum
```

```
    RETURN userStatus
```

```
END FUNCTION
```

```
FUNCTION getEmail() RETURNS String
```

```
    RETURN email
```

```
END FUNCTION
```

```
FUNCTION getProfilePhoto() RETURNS
```

```
File
```

```
    RETURN profilePhoto
```

```
END FUNCTION
```

```
FUNCTION deleteUser()
```

```
    IF userID != NULL THEN
```

```
        DELETE user FROM database
```

```
    WHERE userID = userID
```

```
        PRINT "Deleted"
```

```
    ELSE
```

```
        PRINT "Error"
```

```
    END IF
```

```
END FUNCTION
```

```
FUNCTION deleteProfilePhoto()
```

```
    IF profilePhoto != NULL THEN
```

```
        SET profilePhoto = NULL
```

```
        PRINT "Removed"
```

```
    ELSE
```

```
        PRINT "Error"
```

```
    END IF
```

```
END FUNCTION
```

```
FUNCTION update()
```

```
    IF displayName = new OR email = new
```

```
    OR userStatus = new THEN
```

```
        UPDATE User SET displayName =
```

```
        displayName, email = email, userStatus =
```

```
        userStatus WHERE userID = userID
```

```
        PRINT "Updated"
```

```
    ELSE
```

```
        PRINT "Error"
```

```
    END IF
```

```
END FUNCTION
```

```
FUNCTION delete()
```

```
    IF userID != NULL THEN
```

```
        DELETE FROM database WHERE
```

```
        userID = userID
```

```
        PRINT "Deleted"
```

```
    ELSE
```

```
        PRINT "Error"
```

```
    END IF
```

```
END FUNCTION
```

```
FUNCTION delete()
```

```
    IF userID != NULL THEN
```

```
        DELETE FROM database WHERE
```

```
        userID = userID
```

```
        PRINT "Deleted"
```

```
    ELSE
```

```
        PRINT "Error"
```

```
    END IF
```

```
END FUNCTION
```

```

FUNCTION add()
  IF userID IS VALID THEN
    INSERT INTO Users (userID,
  displayName, email, userStatus,
  profilePhoto) VALUES (userID,
  displayName, email, userStatus,
  profilePhoto)
    PRINT "Added"
  ELSE
    PRINT "Error"
  END IF
END FUNCTION

```

Post:

```

FUNCTION Post()
  title = " "
  publisher = new User()
  content = " "
  scheduledTime = new DateTime()
  status = "Draft"
  receiver = new User()
  date = new Date()
  time = new Time()
  comments = new List()
  users = new List()
  groupName = " "
  notification = new Notification()
END FUNCTION

FUNCTION getTitle() RETURNS String
  RETURN title
END FUNCTION

FUNCTION getPublisher() RETURNS User
  RETURN publisher
END FUNCTION

FUNCTION getContent() RETURNS String
  RETURN content
END FUNCTION

FUNCTION getScheduledTime() RETURNS
DateTime

```

```

  RETURN scheduledTime
END FUNCTION

```

```

FUNCTION getStatus() RETURNS
PostStatus
  RETURN status
END FUNCTION

```

```

FUNCTION getReciever() RETURNS User
  RETURN receiver
END FUNCTION

```

```

FUNCTION getDate() RETURNS Date
  RETURN date
END FUNCTION

```

```

FUNCTION getTime() RETURNS Time
  RETURN time
END FUNCTION

```

```

FUNCTION getComments() RETURNS
ListOfComments
  RETURN comments
END FUNCTION

```

```

FUNCTION getUsers() RETURNS
ListOfUsers
  RETURN users
END FUNCTION

```

```

FUNCTION getGroupName() RETURNS
String
  RETURN groupName
END FUNCTION

```

```

FUNCTION getNotification() RETURNS
Notification
  RETURN notification
END FUNCTION

```

```

FUNCTION setDate(date: Date)
  SET date = date
END FUNCTION

```

```

FUNCTION setTime(time: Time)

```

```

    SET time = time
END FUNCTION

FUNCTION setPublisher(publisher: User)
    SET publisher = publisher
END FUNCTION

FUNCTION setContent(content: String)
    SET content = content
END FUNCTION

FUNCTION
setScheduleDateTime(scheduleTime:
DateTime)
    SET scheduledTime = scheduleTime
END FUNCTION

FUNCTION setStatus(status: PostStatus)
    SET status = status
END FUNCTION
FUNCTION setComments(comments:
ListOfComments)
    SET comments = comments
END FUNCTION

FUNCTION setUsers(users: ListOfUsers)
    SET users = users
END FUNCTION

FUNCTION setGroupName(groupName:
String)
    SET groupName = groupName
END FUNCTION

FUNCTION setNotification(notification:
Notification)
    SET notification = notification
END FUNCTION

FUNCTION pinComments() RETURNS
Boolean
    IF comments = PINNED THEN
        RETURN TRUE
    ELSE

```

```

        RETURN FALSE
    END IF
END FUNCTION

FUNCTION delete()
    DELETE post FROM database WHERE
postID = postID
    PRINT "Deleted"
END FUNCTION

FUNCTION update()
    IF content = new OR status = new THEN
        UPDATE post SET content = content,
status = status WHERE postID = postID
        PRINT "Updated"
    ELSE
        PRINT "No updates"
    END IF
END FUNCTION

FUNCTION add()
    INSERT INTO posts (title, publisher,
content, scheduledTime, status, receiver,
date, time, comments, users, groupName,
notification)
        VALUES (title, publisher, content,
scheduledTime, status, receiver, date, time,
comments, users, groupName, notification)
    PRINT "Added"
END FUNCTION
-----
Inbox:

FUNCTION inbox()
    messages = new List()
    notifications = new List()
    status = "active"
    filter = "all"
    pin = FALSE
    post = new Post()
END FUNCTION

FUNCTION getMessages() RETURNS List
    RETURN messages
END FUNCTION

```

```
FUNCTION getNotifications() RETURNS  
List
```

```
    RETURN notifications  
END FUNCTION
```

```
FUNCTION deleteMessages()  
    CLEAR messages  
    PRINT "Deleted"  
END FUNCTION
```

```
FUNCTION deleteNotifications()  
    CLEAR notifications  
    PRINT "Deleted"  
END FUNCTION
```

```
FUNCTION pinStatus() RETURNS Boolean  
    RETURN pin  
END FUNCTION
```

```
FUNCTION getFilter() RETURNS String  
    RETURN filter  
END FUNCTION
```

```
FUNCTION getPost() RETURNS Post  
    RETURN post  
END FUNCTION
```

```
FUNCTION delete()  
    DELETE inbox FROM database WHERE  
inboxID = inboxID  
    PRINT "Deleted"  
END FUNCTION
```

```
FUNCTION update()  
    IF status = newOR filter = new THEN  
        UPDATE inbox SET status = status,  
filter = filter WHERE inboxID = inboxID  
        PRINT "Updated"  
    ELSE  
        PRINT "No updates"  
    END IF  
END FUNCTION
```

```
FUNCTION add()  
    INSERT INTO inbox (messages,  
notifications, status, filter, pin, post)  
    VALUES (messages, notifications, status,  
filter, pin, post)  
    PRINT "Added"  
END FUNCTION
```

Content:

```
FUNCTION Content()  
    contentType = " "  
    publisher = new User()  
    date = new Date()  
    time = new Time()  
    images = new List()  
    links = new List()  
    receiver = new User()  
    reminder = new DateTime()  
    filter = "all"  
    comments = new List()  
END FUNCTION
```

```
FUNCTION getContentType() RETURNS  
String  
    RETURN contentType  
END FUNCTION
```

```
FUNCTION getPublisher() RETURNS User  
    RETURN publisher  
END FUNCTION
```

```
FUNCTION getDate() RETURNS Date  
    RETURN date  
END FUNCTION
```

```
FUNCTION getTime() RETURNS Time  
    RETURN time  
END FUNCTION
```

```
FUNCTION getReciever() RETURNS User  
    RETURN receiver  
END FUNCTION
```

```
FUNCTION getImages() RETURNS List
    RETURN images
END FUNCTION
```

```
FUNCTION getContent() RETURNS String
    RETURN content
END FUNCTION
```

```
FUNCTION getLinks() RETURNS List
    RETURN links
END FUNCTION
```

```
FUNCTION getReminder() RETURNS
DateTime
    RETURN reminder
END FUNCTION
```

```
FUNCTION getFilter() RETURNS String
    RETURN filter
END FUNCTION
```

```
FUNCTION getComments() RETURNS List
    RETURN comments
END FUNCTION
```

```
FUNCTION writeComments(comment:
String)
    ADD comment TO comments
    PRINT "Added"
END FUNCTION
```

```
FUNCTION delete()
    DELETE content FROM database
    WHERE contentID = contentID
    PRINT "Deleted"
END FUNCTION
```

```
FUNCTION update()
    IF content = new OR reminder = new
    THEN
        UPDATE content SET content =
content, reminder = reminder WHERE
contentID = contentID
        PRINT "Updated"
```

```
    ELSE
        PRINT "No update"
    END IF
END FUNCTION
```

```
FUNCTION add()
    INSERT INTO content (contentType,
publisher, date, time, receiver, images, links,
reminder, filter, comments)
    VALUES (contentType, publisher, date,
time, receiver, images, links, reminder, filter,
comments)
    PRINT "Added"
END FUNCTION
```

Message:

```
FUNCTION Message()
    sender = new User()
    date = new Date()
    time = new Time()
    receiver = new User()
    content = " "
    attachments = new List()
    emojis = new List()
    videoClip = new List()
    audioClip = new List()
    links = new List()
    status = "unread"
    reminder = new DateTime()
END FUNCTION
```

```
FUNCTION getSender() RETURNS User
    RETURN sender
END FUNCTION
```

```
FUNCTION getDate() RETURNS Date
    RETURN date
END FUNCTION
```

```
FUNCTION getTime() RETURNS Time
    RETURN time
END FUNCTION
```

```
FUNCTION getReciever() RETURNS User
    RETURN receiver
END FUNCTION
```

```
FUNCTION getContent() RETURNS String
    RETURN content
END FUNCTION
```

```
FUNCTION getAttatchments() RETURNS
List
    RETURN attachments
END FUNCTION
```

```
FUNCTION getEmojis() RETURNS List
    RETURN emojis
END FUNCTION
```

```
FUNCTION getVideoClip() RETURNS List
    RETURN videoClip
END FUNCTION
```

```
FUNCTION getAudioClip() RETURNS List
    RETURN audioClip
END FUNCTION
```

```
FUNCTION getLinks() RETURNS List
    RETURN links
END FUNCTION
```

```
FUNCTION getStatus() RETURNS String
    RETURN status
END FUNCTION
```

```
FUNCTION sendMessage(content: String,
emojis: List, videoClip: List, audioClip: List,
links: List)
    SET content = content
    SET emojis = emojis
    SET videoClip = videoClip
    SET audioClip = audioClip
    SET links = links
    SET status = "sent"
    PRINT "Message sent"
END FUNCTION
```

```
FUNCTION recieveMessage()
    SET status = "received"
    PRINT "Message received"
END FUNCTION
```

```
FUNCTION delete()
    DELETE message FROM database
WHERE messageID = messageID
    PRINT "Deleted"
END FUNCTION
```

```
FUNCTION markStatus(status: String)
    SET status = status
    PRINT "Status marked as " + status
END FUNCTION
```

```
FUNCTION displayMessage()
    PRINT "Sender: " + sender.name
    PRINT "Content: " + content
    PRINT "Status: " + status
    PRINT "Date: " + date
    PRINT "Time: " + time
END FUNCTION
```

```
FUNCTION update(content: String, status:
String, reminder: DateTime)
    SET content = content
    SET status = status
    SET reminder = reminder
    PRINT "Updated"
END FUNCTION
```

```
FUNCTION add()
    INSERT INTO messages (sender, date,
time, receiver, content, attachments, emojis,
videoClip, audioClip, links, status, reminder)
    VALUES (sender, date, time, receiver,
content, attachments, emojis, videoClip,
audioClip, links, status, reminder)
    PRINT "Added"
END FUNCTION
```

```
FUNCTION pinStatus() RETURNS Boolean
```

```

IF status == "pinned" THEN
    RETURN TRUE
ELSE
    RETURN FALSE
END IF
END FUNCTION

```

Notification:

```

FUNCTION Notification()
    message = " "
    date = new Date()
    time = new Time()
    status = "unread"
    type = "info"
    reminder = new DateTime()
END FUNCTION

FUNCTION getMessage() RETURNS String
    RETURN message
END FUNCTION

FUNCTION getReminder() RETURNS
DateTime
    RETURN reminder
END FUNCTION

FUNCTION getDate() RETURNS Date
    RETURN date
END FUNCTION

FUNCTION getTime() RETURNS Time
    RETURN time
END FUNCTION

FUNCTION getStatus() RETURNS String
    RETURN status
END FUNCTION

FUNCTION getType() RETURNS String
    RETURN type
END FUNCTION

FUNCTION delete()

```

```

DELETE notification FROM database
WHERE notificationID = notificationID
PRINT "Notification deleted"
END FUNCTION

```

```

FUNCTION update()
    IF message = new OR reminder = new
    THEN
        UPDATE notification SET message =
message, reminder = reminder WHERE
notificationID = notificationID
        PRINT "Updated"
    ELSE
        PRINT "No updates"
    END IF
END FUNCTION

```

```

FUNCTION add()
    INSERT INTO notifications (message,
date, time, status, type, reminder)
    VALUES (message, date, time, status,
type, reminder)
    PRINT "Notification added"
END FUNCTION

```

When prompted with “You are a software engineer and need to specify the pseudocode for the methods of a class from a class diagram. If I have a **User** (i changed depending on my own specified diagram) class with the following methods and attributes, specify the pseudocode for each method. (Included a list of my attributes and methods). Also, ensure the methods are clearly mapped. For example, FUNCTION Message()..., addMessage(message) using parens for data sent to the method, pin=true, end example;” the ChatGPT-generated text created the pseudocode based on my prompted instructions. I ensured I removed the code that was not necessary and I edited the output to make the wording much simpler (such as using = or !=. one-word print outputs, etc.)(OpenAI, 2024).

Reference

OpenAI.(2024). ChatGPT (GPT -4)[Large language model]. <https://chatgpt.com/>