JAN HENDRIX B. NAVALES BSIT 3rd Year

API Midterm Exam

Midterm Exam: Python API Integration and Data Generation

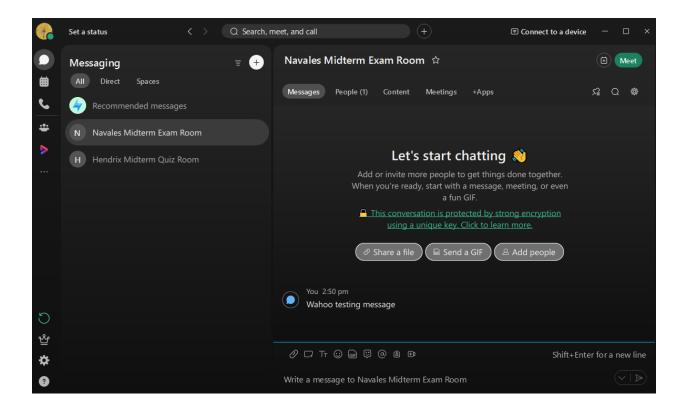
Total Points: 50

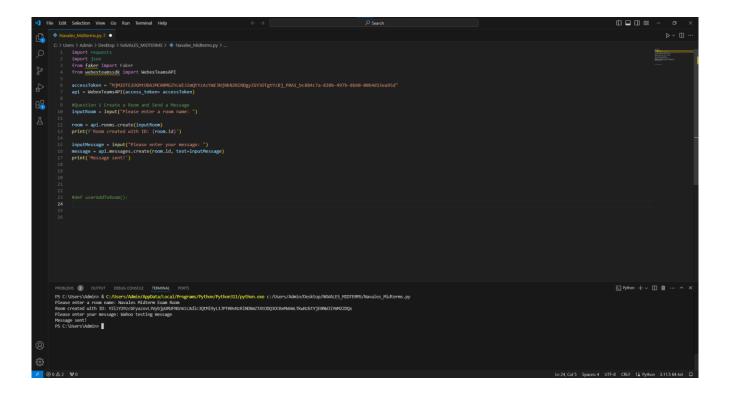
Part 1: Webex Teams API (30 Points)

Question 1: Create a Room and Send a Message (10 pts)

Write a Python script that creates a room in Webex and sends a welcome message to the room. Make sure to use the webexteamssdk library. Provide the room name and message as user inputs (using input()).

- Create a Webex room with the title provided by the user.
- Send a message to the room that the user also provides.





Question 2: Add Multiple Participants to the Room (10 pts)

After creating the room, write a Python function to add multiple participants (using their email addresses) to the room. The emails should be read from a list of at least three addresses.

- Use a list to store three participants' email addresses.
- Loop through the list and add each participant to the room using the Webex API.

```
print('Message sent!')

# Question 2: Add Multiple Participants to the Room
email_list = ['ellisnuevas00@gmail.com', 'keanandreimatic@baliuagu.edu.ph', 'igaya82@gmail.com']

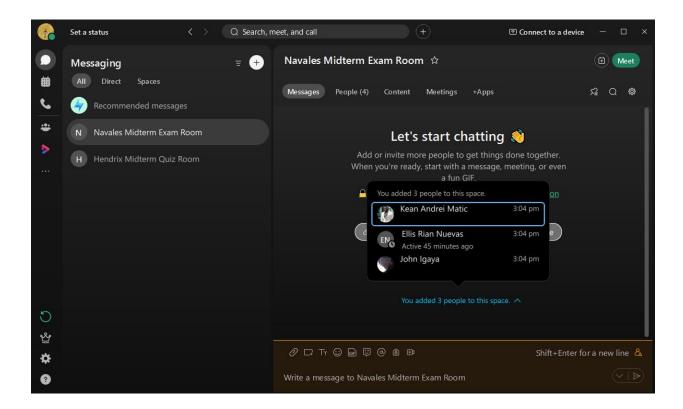
def userAddToRoom(room_id, email_list):
    for email in email_list:
        try:
        api.memberships.create(roomId=room_id, personEmail=email)

print(f'Added {email} to the room.')
except Exception as e:
    print(f'Failed to add {email} to the room: {str(e)}')

userAddToRoom(room.id, email_list)

### Question 2: Add Multiple Participants to the Room
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```

```
Message sent!
Added ellisnuevas00@gmail.com to the room.
Added keanandreimatic@baliuagu.edu.ph to the room.
Added igaya82@gmail.com to the room.
```



Question 3: List Room Messages and Delete a Specific Message (10 pts)

Extend your previous script to list all the messages in the room. Then, allow the user to delete a specific message by providing its message ID.

- Display all messages with their message IDs.
- Prompt the user to input a message ID to delete.
- Use the Webex API to delete the selected message.

```
# Question 3: List Room Messages and Delete a Specific Message

def list_room_messages(room_id):

messages = api.messages.list(roomId=room_id)

for message in messages:

print(f'Message ID: {message.id}, Text: {message.text}')

def deleteMessage(message_id):

try:

api.messages.delete(message_id)

print(f'Message with ID {message_id} deleted.')

except Exception as e:

print(f'Failed to delete message with ID {message_id}: {str(e)}')

print('Listing all messages in the room:')

list_room_messages(room.id)

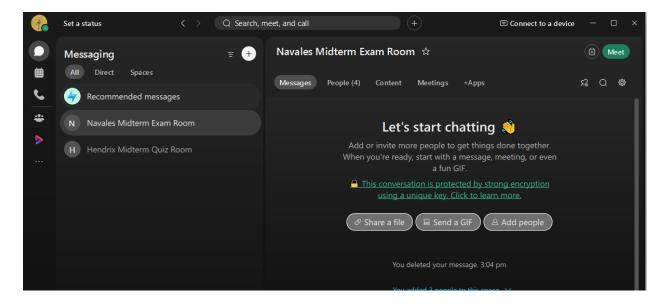
inputMessageId = input("Please enter the message ID to delete: ")

deleteMessage(inputMessageId)
```

Listing all messages in the room:

Message ID: Y21zY29zcGFyazovL3VybjpURUFNOnVzLXd1c3QtM19yL01FUJNBR0UMIjk2YMQzZTAtOOQ3Y50xMMMmLTlhYmITYjlkOTlkMZV1MMJM, Text: Wahoo testing message
Please enter the message ID to delete: Y21zY29zcGFyazovL3VybjpURUFNOnVzLXd1c3QtM19yL01FUJNBR0UMIjk2YMQzZTAtOOQ3Y50xMMMmLTlhYmITYjlkOTlkMZV1MMJM
Message with ID Y21zY29zcGFyazovL3VybjpURUFNOnVzLXd1c3QtM19yL01FUJNBR0UMIjk2YMQzZTAtOOQ3Y50xMMMmLTlhYmITYjlkOTlkMZV1MMJM deleted.

PS C:\Users\Admin> []



Part 2: Faker Program (20 Points)

Question 4: Generate Fake User Profiles (10 pts)

Write a Python script that uses the faker library to generate 10 fake user profiles. Each profile should include:

- Full name
- Email address
- Job title
- Company

- Generate a list of 10 user profiles.
- Print each profile in a structured format (one line per profile).

Question 5: Generate Fake Transaction Records (10 pts)

Create a script that generates 10 fake transaction records. Each record should include:

- Transaction ID (random alphanumeric string)
- Transaction date (in the format YYYY-MM-DD)
- Amount (random float between 100.00 and 5000.00)

- Use the Faker library to generate the data.
- Print each transaction in a readable format.

Follow these steps:

- 1. Initialize a new Git repository.
- 2. Add your Python scripts for the Webex API and Faker tasks.
- 3. Commit the changes with an appropriate commit message.
- 4. Push the changes to a remote GitHub repository.

Requirements:

• Provide the GitHub link to your repository with the scripts and screenshots included.