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import os
import json
import requests
from cryptography.fernet import Fernet

class CommunicationApp:
    def __init__(self):
        self.api_key = os.environ.get('API_KEY')
        self.api_secret = os.environ.get('API_SECRET')
        self.crypto_key = os.environ.get('CRYPTO_KEY')
        self.fernet = Fernet(self.crypto_key)
        self.session = requests.Session()

    def send_cryptocurrency(self, to_address, amount):
        payload = {
            'api_key': self.api_key,
            'to_address': to_address,
            'amount': amount
        }
        headers = {
            'Content-Type': 'application/json',
            'Authorization': f'Bearer {self.api_secret}'
        }
        response = self.session.post('https://api.cryptocurrency.com/send',
data=json.dumps(payload), headers=headers)
        return response.json()

    def send_file(self, file_path, to_address):
        with open(file_path, 'rb') as file:
            encrypted_data = self.fernet.encrypt(file.read())
        payload = {
            'to_address': to_address,
            'encrypted_data': encrypted_data
        }
        headers = {
            'Content-Type': 'application/json'
        }
        response = self.session.post('https://api.communicationapp.com/send_file',
data=json.dumps(payload), headers=headers)
        return response.json()

    def get_file(self, file_id):
        headers = {
            'Content-Type': 'application/json'
        }
        response = self.session.get(f'https://api.communicationapp.com/get_file/{file_id}',
headers=headers)
        encrypted_data = response.json()['encrypted_data']
        decrypted_data = self.fernet.decrypt(encrypted_data)
        return decrypted_data

    def send_message(self, to_address, message):
        payload = {
            'to_address': to_address,

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        'message': message
    }
    headers = {
        'Content-Type': 'application/json'
    }
    response = self.session.post('https://api.communicationapp.com/send_message',
data=json.dumps(payload), headers=headers)
    return response.json()

def get_messages(self):
    headers = {
        'Content-Type': 'application/json'
    }
    response = self.session.get('https://api.communicationapp.com/get_messages',
headers=headers)
    return response.json()

def search(self, query):
    payload =
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