```
1 # from datetime import datetime, timedelta
 2 # from data_manager import DataManager
 3 # from flight_search import FlightSearch
 4 # from notification_manager import
   NotificationManager
 5 #
 6 #
 7 # ORIGIN_CITY_IATA = "LON"
 8 #
 9 # data_manager = DataManager()
10 # flight_search = FlightSearch()
11 # notification_manager = NotificationManager()
12 #
13 # sheet_data = data_manager.get_destination_data()
14 #
15 # if sheet_data[0]["iataCode"] == "":
         city_names = [row["city"] for row in sheet_data
16 #
   ]
17 #
         data_manager.city_codes = flight_search.
   get_destination_codes(city_names)
18 #
         data_manager.update_destination_codes()
19 #
         sheet_data = data_manager.get_destination_data
   ()
20 #
21 # destinations = {
22 #
         data["iataCode"]: {
             "id": data["id"],
23 #
             "city": data["city"],
24 #
             "price": data["lowestPrice"]
25 #
26 #
         } for data in sheet_data}
27 #
28 # tomorrow = datetime.now() + timedelta(days=1)
29 # six_month_from_today = datetime.now() + timedelta(
   days=6 * 30
30 #
31 # for destination_code in destinations:
32 #
         flight = flight_search.check_flights(
33 #
             ORIGIN_CITY_IATA,
34 #
             destination_code,
35 #
             from_time=tomorrow,
             to_time=six_month_from_today
36 #
```

```
File - C:\Users\HP\AppData\Local\Temp\1849ac5f-c4af-4203-8220-3d08563cf7a2_29-49 100 Days of codes[2].zip.7a2\29-49 10
37 #
38 #
          print(flight.price)
39 #
          if flight is None:
40 #
              continue
41 #
42 #
          if flight.price < destinations[destination_code</pre>
   ]["price"]:
43 #
44 #
              users = data_manager.get_customer_emails()
              emails = [row["email"] for row in users]
45 #
46 #
              names = [row["firstName"] for row in users]
47 #
              message = f"Low price alert! Only £{flight.
48 #
   price} to fly from {flight.origin_city}-{flight.
   origin_airport} to {flight.destination_city}-{flight.
   destination_airport}, from {flight.out_date} to {
   flight.return_date}."
49 #
50 #
              if flight.stop_overs > 0:
                  message += f"\nFlight has {flight.
51 #
   stop_overs} stop over, via {flight.via_city}."
52 #
53 #
              link = f"https://www.google.co.uk/flights?
   hl=en#flt={flight.origin_airport}.{flight.
   destination_airport}.{flight.out_date}*{flight.
   destination_airport}.{flight.origin_airport}.{flight.
   return_date}"
54 #
55 #
              notification_manager.send_emails(emails,
   message, link)
56 #
57 #
58
59 print("Welcome to Lenar's Flight Club.\nWe find the
   best flight deals and email you.")
60 input("What is your first name?\n")
61 input("What is your last name?\n")
62 input("What is your email?\n")
63 input("Type your email again.\n")
64 print("You're in the club!")
65
```

```
66 #notification manager
 67 import smtplib
 68 from twilio.rest import Client
 69
 70 TWILIO_SID = YOUR TWILIO ACCOUNT SID
 71 TWILIO_AUTH_TOKEN = YOUR TWILIO AUTH TOKEN
 72 TWILIO VIRTUAL NUMBER = YOUR TWILIO VIRTUAL NUMBER
 73 TWILIO_VERIFIED_NUMBER = YOUR TWILIO VERIFIED NUMBER
 74 MAIL_PROVIDER_SMTP_ADDRESS = YOUR EMAIL PROVIDER
    SMTP ADDRESS "smtp.gmail.com"
 75 MY_EMAIL = YOUR EMAIL
 76 MY_PASSWORD = YOUR PASSWORD
 77
 78 class NotificationManager:
 79
        def __init__(self):
 80
            self.client = Client(TWILIO_SID,
 81
    TWILIO_AUTH_TOKEN)
 82
 83
        def send_sms(self, message):
 84
            message = self.client.messages.create(
 85
                body=message,
 86
                from_=TWILIO_VIRTUAL_NUMBER,
 87
                to=TWILIO_VERIFIED_NUMBER,
 88
            )
 89
            print(message.sid)
 90
 91
        def send_emails(self, emails, message,
    google_flight_link):
 92
            with smtplib.SMTP(MAIL_PROVIDER_SMTP_ADDRESS
    ) as connection:
 93
                connection.starttls()
 94
                connection.login(MY_EMAIL, MY_PASSWORD)
 95
                for email in emails:
 96
                    connection.sendmail(
 97
                         from_addr=MY_EMAIL,
 98
                         to addrs=email,
 99
                         msg=f"Subject:New Low Price
    Flight!\n\n{message}\n{google_flight_link}".encode('
    utf-8')
                    )
100
```

return code

172

173

```
def check_flights(self, origin_city_code,
174
    destination_city_code, from_time, to_time):
            headers = {"apikey": TEQUILA_API_KEY}
175
176
            query = {
177
                 "fly_from": origin_city_code,
                "fly_to": destination_city_code,
178
179
                 "date_from": from_time.strftime("%d/%m/%
    Υ"),
                 "date_to": to_time.strftime("%d/%m/%Y"),
180
                "nights_in_dst_from": 7,
181
                 "nights_in_dst_to": 28,
182
                "flight_type": "round",
183
184
                 "one_for_city": 1,
                 "max_stopovers": 0,
185
                 "curr": "GBP"
186
            }
187
188
189
            response = requests.get(
                url=f"{TEQUILA_ENDPOINT}/v2/search",
190
191
                headers=headers,
192
                params=query,
193
            )
194
            try:
195
                data = response.json()["data"][0]
            except IndexError:
196
                query["max_stopovers"] = 1
197
                response = requests.get(
198
199
                     url=f"{TEQUILA_ENDPOINT}/v2/search",
200
                     headers=headers,
201
                     params=query,
202
                )
                data = response.json()["data"][0]
203
204
                pprint(data)
                flight_data = FlightData(
205
206
                     price=data["price"],
                     origin_city=data["route"][0]["
207
    cityFrom"],
                     origin_airport=data["route"][0]["
208
    flyFrom"],
209
                     destination_city=data["route"][1]["
    cityTo"],
```

227228

229230

return flight_data