```
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 data_manager = DataManager()
 7 sheet_data = data_manager.get_destination_data()
 8 flight_search = FlightSearch()
 9 notification_manager = NotificationManager()
10
11 ORIGIN_CITY_IATA = "LON"
12
13 if sheet_data[0]["iataCode"] == "":
       for row in sheet data:
14
15
           row["iataCode"] = flight_search.
   qet_destination_code(row["city"])
16
       data_manager.destination_data = sheet_data
17
       data_manager.update_destination_codes()
18
19 tomorrow = datetime.now() + timedelta(days=1)
20 six_month_from_today = datetime.now() + timedelta(
   days=(6 * 30))
21
22 for destination in sheet_data:
23
       flight = flight_search.check_flights(
24
           ORIGIN_CITY_IATA,
25
           destination["iataCode"],
26
           from_time=tomorrow,
27
           to_time=six_month_from_today
28
29
       if flight.price < destination["lowestPrice"]:</pre>
30
           notification_manager.send_sms(
31
               message=f"Low price alert! Only £{flight.
   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}."
32
           )
33
34
35 #flight_data
```

```
36 class FlightData:
37
38
       def __init__(self, price, origin_city,
   origin_airport, destination_city, destination_airport
   , out_date, return_date):
39
           self.price = price
40
           self.origin_city = origin_city
           self.origin_airport = origin_airport
41
42
           self.destination_city = destination_city
43
           self.destination_airport =
   destination_airport
44
           self.out_date = out_date
45
           self.return_date = return_date
46
47 #data_manager
48 from pprint import pprint
49 import requests
50
51 SHEETY_PRICES_ENDPOINT = "https://api.sheety.co/***/
   flightDeals/prices"
52
53
54 class DataManager:
55
       def __init__(self):
56
57
           self.destination_data = {}
58
59
       def get_destination_data(self):
60
           response = requests.get(url=
   SHEETY_PRICES_ENDPOINT)
61
           data = response.json()
           self.destination_data = data["prices"]
62
63
           return self.destination_data
64
65
       def update_destination_codes(self):
           for city in self.destination_data:
66
               new data = {
67
68
                    "price": {
69
                        "iataCode": city["iataCode"]
70
                   }
               }
71
```

```
72
                response = requests.put(
 73
                    url=f"{SHEETY_PRICES_ENDPOINT}/{city
    ['id']}",
 74
                    json=new_data
 75
                )
 76
                print(response.text)
 77
 78 #Notification_manager
 79 from twilio.rest import Client
 80
 81 TWILIO_SID = "**********
 82 TWILIO_AUTH_TOKEN = "*********
 83 TWILIO_VIRTUAL_NUMBER = "******
 84 TWILIO VERIFIED NUMBER = "******"
 85
 86
 87 class NotificationManager:
 88
        def __init__(self):
 89
 90
            self.client = Client(TWILIO_SID,
    TWILIO_AUTH_TOKEN)
 91
 92
        def send_sms(self, message):
 93
            message = self.client.messages.create(
 94
                body=message,
 95
                from_=TWILIO_VIRTUAL_NUMBER,
 96
                to=TWILIO_VERIFIED_NUMBER,
 97
            )
 98
            # Prints if successfully sent.
 99
            print(message.sid)
100
101 #flight_search
102 import requests
103 from flight_data import FlightData
104
105 TEQUILA_ENDPOINT = "https://tequila-api.kiwi.com"
106 TEQUILA_API_KEY = "*******"
107
108
109 class FlightSearch:
110
```

```
File - C:\Users\HP\AppData\Local\Temp\4da8db84-d366-4651-bf35-f09dccd00e8b 29-49 100 Days of codes[2].zip.e8b\29-49 1
146
147
              flight_data = FlightData(
                  price=data["price"],
148
                  origin_city=data["route"][0]["cityFrom"
149
     ],
                  origin_airport=data["route"][0]["flyFrom
150
     "],
                  destination_city=data["route"][0]["
151
     cityTo"],
                  destination_airport=data["route"][0]["
152
     flyTo"],
                  out_date=data["route"][0]["
153
     local_departure"].split("T")[0],
154
                  return_date=data["route"][1]["
     local_departure"].split("T")[0]
155
              print(f"{flight_data.destination_city}: £{
156
     flight_data.price}")
157
              return flight_data
158
```

159