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from datetime import datetime
from time import sleep
import warnings
from dotenv import dotenv_values
from threading import *
import requests
from dateparser import parse


class Api:
    warnings.simplefilter('ignore')
    __key = dotenv_values(".env")
    __key = __key["key"]
    __apiMap = {}
    __mainApiMap = {}
    __url = "https://newscatcher.p.rapidapi.com/v1/latest_headlines"
    __headers = {
        "X-RapidAPI-Key": str(__key),
        "X-RapidAPI-Host": "newscatcher.p.rapidapi.com"
    }

    def __newCatcherRunner(self, title):
        querystring = {"topic": title, "lang": "en",
                       "media": "True", "country": "IN"}
        respone = requests.request(
            "GET", url=self.__url, headers=self.__headers, params=querystring)
        respone = respone.json()
        retArr = []
        for x in respone["articles"]:
            newJson = {}
            newJson["url"] = x["link"]
            newJson["title"] = x["title"]
            newJson["img"] = x["media"]
            newJson["topic"] = x["topic"]
            currTime = parse(x["published_date"])
            newJson["date"] = currTime.strftime("%d/%m/%Y")
            retArr.append(newJson)
        return retArr

    def __topHeadlinesFetcher(self):
        querystring = {"topic":"news","lang": "en","media": "True", "country":
"IN"}
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        respone = requests.request("GET", url=self.__url, headers=self.__headers,
params=querystring)
        respone = respone.json()
        retArr = []
        for x in respone["articles"]:
            newJson = {}
            newJson["url"] = x["link"]
            newJson["title"] = x["title"]
            newJson["img"] = x["media"]
            newJson["topic"] = x["topic"]
            currTime = parse(x["published_date"])
            newJson["date"] = currTime.strftime("%d/%m/%Y")
            retArr.append(newJson)
        self.__apiMap["headline"]=retArr
        print("headline fetched at "+str(datetime.now()))

    def __newsCatcherApiFetcher(self):
        arr = ["sport", "tech", "world", "finance", "politics", "business",
               "economics", "entertainment", "beauty", "travel", "music", "food",
"science"]
        for x in arr:
            self.__apiMap[x] = self.__newCatcherRunner(x)
        print("NewsCatcher fetched at "+str(datetime.now()))

    def __cricketFetcher(self):
        url = "https://cricbuzz-cricket.p.rapidapi.com/news/v1/index"
        headers = {
            "X-RapidAPI-Key": self.__key,
            "X-RapidAPI-Host": "cricbuzz-cricket.p.rapidapi.com"
        }
        response = requests.request("GET", url, headers=headers)
        response = response.json()
        response = response["storyList"]
        retArr = []
        for x in response:
            try:
                x = x["story"]
                newJson = {}
                newJson["url"] = f'https://www.cricbuzz.com/cricket-
news/{x["id"]}/newsTrakcer'
                newJson["title"] = x["hline"]
                newJson["image"] =
f'https://www.cricbuzz.com/a/img/v1/500x500/i1/c{x["id"]}/abc.jpg'
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            currTime = datetime.fromtimestamp(int(x["pubTime"])/1e3)
            newJson["date"] = currTime.strftime("%d/%m/%Y")
            newJson["topic"] = "cricket"
            retArr.append(newJson)
        except:
            pass
    self.__apiMap["cricket"] = retArr
    print("Cricbuzz fetched at "+str(datetime.now()))

def newsCatcherThreader(self):
    while True:
        print("NewsCatcher fetching.... at "+str(datetime.now()))
        try:
            self.__newsCatcherApiFetcher()
            self.__mainApiMap = self.__apiMap
        except:
            print("Error NewsCatcher fetching.... at "+str(datetime.now()))
            pass
        sleep(30*60)

def topHeadlinesThreader(self):
    while True:
        print("Headline fetching.... at "+str(datetime.now()))
        try:
            self.__topHeadlinesFetcher()
            self.__mainApiMap = self.__apiMap
        except:
            print("Error headline fetching.... at "+str(datetime.now()))
            pass
        sleep(30*60)

def cricbuzzThreader(self):
    while True:
        print("Cricbuzz fetching.... at "+str(datetime.now()))
        try:
            self.__cricketFetcher()
            self.__mainApiMap = self.__apiMap
        except:
            print("Error Cricbuzz fetching.... at "+str(datetime.now()))
            pass
        sleep(15*60)

def dataGetter(self, topic):
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        return self.__mainApiMap[str(topic)]


a = Api()

def apiRunner():
    t1 = Thread(target=a.topHeadlinesThreader)
    t2 = Thread(target=a.newsCatcherThreader)
    t3 = Thread(target=a.cricbuzzThreader)
    t1.daemon=True
    t2.daemon=True
    t3.daemon=True
    t1.start()
    t2.start()
    t3.start()

def apiData(topic):
    return a.dataGetter(topic)
```