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In [1]: import pandas as pd
import requests
from datetime import datetime
import csv
import pyodbc
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In [3]: import requests
import pandas as pd

def fetch_and_save_data():
    """
    Fetches exchange rate data from the Central Bank of Nigeria (CBN) API,
    converts the JSON response into a Pandas DataFrame, and saves it as a CSV file.

    - URL: https://www.cbn.gov.ng/api/GetAllExchangeRatesGRAPH
    - Saves the data to 'Nigeria_Exchange_Rate.csv'

    If the request fails, an error message is displayed.

    Returns:
        None
    """

    URL = "https://www.cbn.gov.ng/api/GetAllExchangeRatesGRAPH"

    try:
        # Send request to the API
        response = requests.get(URL)
        response.raise_for_status() # Raises an error for HTTP failures (e.g., 404

        # Convert JSON response to a Pandas DataFrame
        data = response.json()
        df = pd.DataFrame(data)

        # Save DataFrame as CSV
        df.to_csv("Nigeria_Exchange_Rate.csv", index=False)
        print("Data has been successfully saved to 'Nigeria_Exchange_Rate.csv'")

    except requests.exceptions.RequestException as e:
        print(f" Error fetching data: {e}")

# Run the function
fetch_and_save_data()
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Data has been successfully saved to 'Nigeria_Exchange_Rate.csv'

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