

Using python to send automatic messages directly scrapped from websites.

Introduction:

In today's data-driven world, accessing information from the web has become an essential part of various projects. In this article, we'll explore how to leverage Python to scrape data from a website and seamlessly send it to a Telegram bot. This integration can be incredibly powerful, providing real-time updates and insights to users right within their Telegram chat.

Getting Started with Web Scraping:

1. Choose a Website:

Identify the website from which you want to scrape data. Ensure that you are compliant with the website's terms of service and respect its policies.

2. Install Required Libraries:

Use Python's powerful libraries for web scraping, such as `requests` for making HTTP requests and `BeautifulSoup` for parsing HTML. Install them using the following:

```
pip install requests beautifulsoup4
```

3. Inspect the Website's Structure:

Use your browser's developer tools to inspect the HTML structure of the website. This step is crucial for identifying the elements you want to extract.

4. Write the Web Scraping Code:

Develop a Python script to scrape the desired data. Use the `requests` library to fetch the webpage and `BeautifulSoup` to parse the HTML. Here's a basic example:

```

import requests
import time
from bs4 import BeautifulSoup

# Telegram Bot details
telegram_bot_token = '6380162674:AAGsjjHmchSWaIRCLvqinIBCM
q41DjNLM10'
telegram_channel_username = '@burh12345'

url = 'https://www.fanabc.com/%e1%88%b5%e1%8d%93%e1%88%ad%
e1%89%b5'

response = requests.get(url)
content2 = response.content

```

Adjusting the scrapped data according to categories:

```

def scrape_data(html_text):
    soup = BeautifulSoup(html_text, 'lxml')
    news = []
    items = soup.find_all('div', class_='item-content') #!
    for item in items:
        category = item.find('div', class_='term-badges floated
        date = item.find('div', class_='post-meta').text if iter
        headline = item.find('h2', class_='title').text if item
        news.append({
            "category": category,
            "date": date,
            "headline": headline

```

```
}  
return news
```

Setting Up Your Telegram Bot:

1. Create a Telegram Bot:

Start a conversation with the "BotFather" on Telegram to create a new bot. Obtain the API token provided for your bot.

2. Install the `python-telegram-bot` Library:

Use the following command to install the library:

```
pip install python-telegram-bot
```

3. Write Code to Send Messages:

Develop the Python script to send messages to your Telegram bot using the `python-telegram-bot` library:

```
def send_message_to_telegram(message):  
    send_message_url = f"https://api.telegram.org/bot{telegram_bot_token}/sendMessage"  
    data = {  
        "chat_id": telegram_channel_username,  
        "text": message,  
        "parse_mode": "HTML"  
    }  
    response = requests.post(send_message_url, data=data)  
    if response.status_code != 200:  
        print("Failed to send message to Telegram channel.")  
  
    news_data = scrape_data(content2)  
  
    for news in news_data:  
        caption = f"<b>News Category:</b> {news['category']}"  
        \n"
```

```
caption += f"<b>News Headlines:</b> {news['headline']}\n"
caption += f"<b>News Date:</b> {news['date']}\n"
send_message_to_telegram(caption)
time.sleep(60)
```

Putting It All Together:

Combine the web scraping and Telegram bot code to send an automatic message scrapped from a website.

Conclusion:

By combining the power of Python, web scraping, and Telegram bots, you've created a dynamic system that fetches real-time data and delivers it directly to your users. This integration can be applied to various use cases, from tracking stock prices to monitoring website changes.