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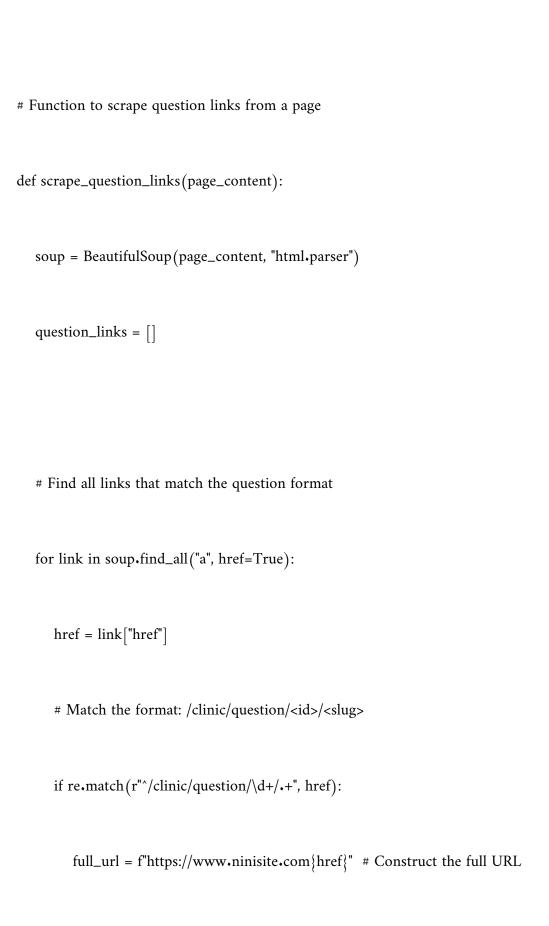
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# Function to check if a page exists
def page_exists(url):
   try:
      response = requests.get(url)
      if response status_code == 200:
         return response.text # Return the page content if it exists
      return None
   except requests.exceptions.RequestException as e:
     print(f"Error checking URL {url}: {e}")
```



```
question_links.append(full_url) # Append the full URL with Farsi slug
```

```
return question_links
```

Main script to gather links grouped by topic

```
all\_data = [] # List to store all data for Excel/CSV
```

for tag in hashtags:

```
encoded_hashtag = quote(tag["hashtag"]) # Encode the hashtag
```

```
page = 1 # Start with page 1
```

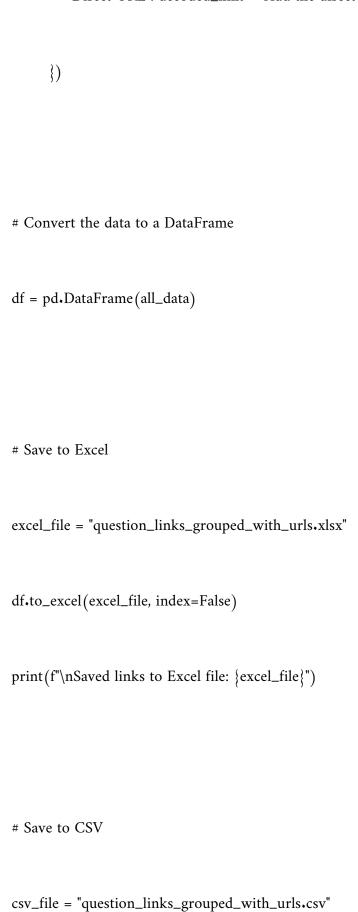
topic_links = [] # List to store links for this topic

max_pages = 50 # Set a maximum number of pages to scrape

 $print\big(f"\backslash nProcessing\ topic:\ \big\{tag\big['hashtag'\big]\big\}\ \big(ID:\ \big\{tag\big['id'\big]\big\}\big)"\big)$

```
while len(topic_links) < tag["samples"] and page <= max_pages: # Stop once we have the required number
of links or reach max pages
    page_content = page_exists(url) # Check if the page exists and get its content
    if page_content:
       links = scrape_question_links(page_content) # Scrape question links from the page
       if links:
         topic_links.extend(links) # Add new links to the topic list
         print(f"Collected {len(links)} links from {url}")
       else:
         print(f"No question links found on {url}")
         break # Stop if no links are found on the page
```

```
page += 1 # Move to the next page
     else:
        print(f"End of pages for topic: {tag['hashtag']}")
        break # Exit the loop when no more pages exist
  # Add topic and its links to the data
   all_data.append({"Topic": tag["hashtag"], "ID": tag["id"], "Links": None, "Direct URL": None}) # Add topic
and ID as a row
  for i, link in enumerate(topic_links[:tag["samples"]], start=1): # Add links under the topic
     decoded_link = unquote(link) # Decode the link to Farsi
     all_data.append({
        "Topic": None,
        "ID": None,
        "Links": f"{i}: {decoded_link}",
```



```
df.to_csv(csv_file, index=False)
print(f"Saved \ links \ to \ CSV \ file: \{csv\_file\}")
# Output the results
print(f"\nCollected links grouped by topics.")
for row in all_data:
   if row["Topic"]:
       print\big(f"\nTopic: \{row['Topic']\}\ \big(ID: \{row['ID']\}\big)"\big)
   elif row["Links"]:
       print \big(row\big["Links"\big]\big)
```