Real Estate Website Scraping

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In [1]:  import pandas as pd
         import requests
         from bs4 import BeautifulSoup
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In [2]:  url = 'https://www.pararius.com/apartments/amsterdam/page-1'
         response = requests.get(url)
```

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In [3]:  response
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Out[3]:  <Response [200]>
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In [ ]:  htmlcontent = response.content
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In [ ]:  soup = BeautifulSoup(htmlcontent,'html.parser')
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In [101... lists = soup.find_all('section', class_='listing-search-item')
         print (len(lists))

         30
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In [119... appartment = []
         for list in lists:
             title = list.find('a', class_='listing-search-item__link--title').text.replace('\n','')
             location = list.find('div', class_='listing-search-item__location').text.replace('\n','')
             price = list.find('div', class_='listing-search-item__price').text.replace('\n','')
             area = list.find('li', class_='illustrated-features__item--surface-area').text.replace('\n','')


             info = {'title': title,
                     'location': location,
                     'price': price,
                     'area': area
                     }

             appartment.append(info)

             print(info)
```

```
{'title': 'Apartment Aalsmeerweg', 'location': '            1059 AA Amsterdam (Hoofddorppleinbuurt)        ', 'price': '               €1,850 per month           ', 'area': '65 m
²'}
{'title': 'Apartment Klaas Katerstraat', 'location': '            1069 RT Amsterdam (Osdorp-Midden)        ', 'price': '               €1,995 per month           ', 'area': '80 m
²'}
{'title': 'Apartment Bijlmerdreef', 'location': '            1103 TX Amsterdam (Bijlmer Oost (E,G,K))        ', 'price': '               €1,700 per month           ', 'area': '74
m²'}
{'title': 'Apartment Kloveniersburgwal 60 2', 'location': '            1012 CX Amsterdam (Burgwallen-Oude Zijde)        ', 'price': '               €2,500 per month           ', '
area': '100 m²'}
{'title': 'Apartment Banstraat 28 II', 'location': '            1071 KA Amsterdam (Museumkwartier)        ', 'price': '               €5,250 per month           ', 'area': '150 m²
'}
{'title': 'Apartment Marcantilaan', 'location': '            1051 NE Amsterdam (Centrale Markt)        ', 'price': '               €3,100 per month           ', 'area': '104 m²'}
{'title': 'Apartment Nassaukade', 'location': '            1052 CK Amsterdam (Staatsliedenbuurt)        ', 'price': '               €1,850 per month           ', 'area': '55 m²'}
{'title': 'Apartment Nieuwe Hoogstraat', 'location': '            1011 HD Amsterdam (Nieuwmarkt/Lastage)        ', 'price': '               €2,800 per month           ', 'area':
'65 m²'}
{'title': 'Apartment Iepenplein', 'location': '            1091 JR Amsterdam (Oosterparkbuurt)        ', 'price': '               €1,900 per month           ', 'area': '80 m²'}
{'title': 'Apartment Haringvlietstraat 15 I', 'location': '            1078 JZ Amsterdam (Scheldebuurt)        ', 'price': '               €2,700 per month           ', 'area':
'91 m²'}
{'title': 'Apartment Van Oldenbarneveldtstraat', 'location': '            1052 JT Amsterdam (Frederik Hendrikbuurt)        ', 'price': '               €2,000 per month
', 'area': '58 m²'}
{'title': 'Apartment Waalstraat', 'location': '            1079 EC Amsterdam (Scheldebuurt)        ', 'price': '               €1,750 per month           ', 'area': '72 m²'}
{'title': 'Apartment Spuistraat 257 D', 'location': '            1012 VR Amsterdam (Burgwallen-Nieuwe Zijde)        ', 'price': '               €2,750 per month           ', 'are
a': '60 m²'}
{'title': 'Apartment Van Baerlestraat 76 C', 'location': '            1071 BB Amsterdam (Museumkwartier)        ', 'price': '               €3,250 per month           ', 'area':
'85 m²'}
{'title': 'Studio Solitudopad', 'location': '            1096 DR Amsterdam (Omval/Overamstel)        ', 'price': '               €1,650 per month           ', 'area': '38 m²'}
{'title': 'Apartment Jacob van Lennepkade 65 3', 'location': '            1054 ZH Amsterdam (Helmersbuurt)        ', 'price': '               €3,400 per month           ', 'are
a': '127 m²'}
{'title': 'Apartment Herengracht', 'location': '            1015 BK Amsterdam (Grachtengordel-West)        ', 'price': '               €4,500 per month           ', 'area': '161
m²'}
{'title': 'House Admiraal De Ruijterweg', 'location': '            1056 EV Amsterdam (Geuzenbuurt)        ', 'price': '               €2,750 per month           ', 'area': '75 m
²'}
{'title': 'Apartment Bella Vistastraat 318', 'location': '            1096 GM Amsterdam (Omval/Overamstel)        ', 'price': '               €4,250 per month           ', 'are
a': '150 m²'}
{'title': 'Apartment VOC-kade 152', 'location': '            1018 LG Amsterdam (Oostelijke Eilanden/Kadijken)        ', 'price': '               €3,250 per month           ', 'ar
ea': '101 m²'}
{'title': 'Apartment Gustav Mahlerlaan 563 B', 'location': '            1082 MK Amsterdam (Zuidas)        ', 'price': '               €2,000 per month           ', 'area': '50 m
²'}
{'title': 'Studio Nieuwezijds Voorburgwal', 'location': '            1012 RD Amsterdam (Burgwallen-Nieuwe Zijde)        ', 'price': '               €1,300 per month           ', '
area': '25 m²'}
{'title': 'Apartment IJdok', 'location': '            1013 MM Amsterdam (Haarlemmerbuurt)        ', 'price': '               €2,595 per month           ', 'area': '105 m²'}
{'title': 'Apartment Gerard Brandtstraat 6 c3', 'location': '            1054 JH Amsterdam (Helmersbuurt)        ', 'price': '               €2,000 per month           ', 'area':
'60 m²'}
{'title': 'Apartment Wagenstraat', 'location': '            1017 CZ Amsterdam (Grachtengordel-Zuid)        ', 'price': '               €3,100 per month           ', 'area': '90 m
²'}
{'title': 'Apartment Julius Pergerstraat', 'location': '            1087 KP Amsterdam (IJburg Zuid)        ', 'price': '               €1,850 per month           ', 'area': '80 m
²'}
{'title': 'Apartment Laurierstraat 65 F', 'location': '            1016 PJ Amsterdam (Jordaan)        ', 'price': '               €2,550 per month           ', 'area': '90 m²'}
{'title': 'Apartment Elandsgracht', 'location': '            1016 VB Amsterdam (Jordaan)        ', 'price': '               €1,900 per month           ', 'area': '60 m²'}
{'title': 'Apartment Bonairestraat', 'location': '            1058 XL Amsterdam (Westindische Buurt)        ', 'price': '               €2,350 per month           ', 'area': '91
m²'}
{'title': 'Apartment Tweede Tuindwarsstraat 6 B', 'location': '            1015 RZ Amsterdam (Jordaan)        ', 'price': '               €2,750 per month           ', 'area': '7
6 m²'}
```

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In [120... df = pd.DataFrame(appartment)
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In [121... len(df)
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Out[121... 30
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In [122... df
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Out[122...

	title	location	price	area
0	Apartment Aalsmeerweg	1059 AA Amsterdam (Hoofddorppleinb...	€1,850 per month	65 m²
1	Apartment Klaas Katerstraat	1069 RT Amsterdam (Osdorp-Midden) ...	€1,995 per month	80 m²
2	Apartment Bijlmerdreef	1103 TX Amsterdam (Bijlmer Oost (E...	€1,700 per month	74 m²
3	Apartment Kloveniersburgwal 60 2	1012 CX Amsterdam (Burgwallen-Oude...	€2,500 per month	100 m²
4	Apartment Banstraat 28 II	1071 KA Amsterdam (Museumkwartier)...	€5,250 per month	150 m²
5	Apartment Marcantilaan	1051 NE Amsterdam (Centrale Markt)...	€3,100 per month	104 m²
6	Apartment Nassaukade	1052 CK Amsterdam (Staatsliedenbuu...	€1,850 per month	55 m²
7	Apartment Nieuwe Hoogstraat	1011 HD Amsterdam (Nieuwmarkt/Last...	€2,800 per month	65 m²
8	Apartment Iepenplein	1091 JR Amsterdam (Oosterparkbuurt...	€1,900 per month	80 m²
9	Apartment Haringvlietstraat 15 I	1078 JZ Amsterdam (Scheldebuurt) ...	€2,700 per month	91 m²
10	Apartment Van Oldenbarneveldtstraat	1052 JT Amsterdam (Frederik Hendri...	€2,000 per month	58 m²
11	Apartment Waalstraat	1079 EC Amsterdam (Scheldebuurt) ...	€1,750 per month	72 m²
12	Apartment Spuistraat 257 D	1012 VR Amsterdam (Burgwallen-Nieu...	€2,750 per month	60 m²
13	Apartment Van Baerlestraat 76 C	1071 BB Amsterdam (Museumkwartier)...	€3,250 per month	85 m²
14	Studio Solitudopad	1096 DR Amsterdam (Omval/Overamste...	€1,650 per month	38 m²
15	Apartment Jacob van Lennepkade 65 3	1054 ZH Amsterdam (Helmersbuurt) ...	€3,400 per month	127 m²
16	Apartment Herengracht	1015 BK Amsterdam (Grachtengordel-...	€4,500 per month	161 m²
17	House Admiraal De Ruijterweg	1056 EV Amsterdam (Geuzenbuurt) ...	€2,750 per month	75 m²
18	Apartment Bella Vistastraat 318	1096 GM Amsterdam (Omval/Overamste...	€4,250 per month	150 m²
19	Apartment VOC-kade 152	1018 LG Amsterdam (Oostelijke Eila...	€3,250 per month	101 m²
20	Apartment Gustav Mahlerlaan 563 B	1082 MK Amsterdam (Zuidas)	€2,000 per month	50 m²
21	Studio Nieuwezijds Voorburgwal	1012 RD Amsterdam (Burgwallen-Nieu...	€1,300 per month	25 m²
22	Apartment IJdok	1013 MM Amsterdam (Haarlemmerbuurt...	€2,595 per month	105 m²
23	Apartment Gerard Brandtstraat 6 c3	1054 JH Amsterdam (Helmersbuurt) ...	€2,000 per month	60 m²
24	Apartment Wagenstraat	1017 CZ Amsterdam (Grachtengordel-...	€3,100 per month	90 m²
25	Apartment Julius Pergerstraat	1087 KP Amsterdam (IJburg Zuid) ...	€1,850 per month	80 m²
26	Apartment Laurierstraat 65 F	1016 PJ Amsterdam (Jordaan)	€2,550 per month	90 m²
27	Apartment Elandsgracht	1016 VB Amsterdam (Jordaan)	€1,900 per month	60 m²
28	Apartment Bonairestraat	1058 XL Amsterdam (Westindische Bu...	€2,350 per month	91 m²
29	Apartment Tweede Tuindwarsstraat 6 B	1015 RZ Amsterdam (Jordaan)	€2,750 per month	76 m²

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In [123... df.head()
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Out[123...

	title	location	price	area
0	Apartment Aalsmeerweg	1059 AA Amsterdam (Hoofddorppleinb...	€1,850 per month	65 m²
1	Apartment Klaas Katerstraat	1069 RT Amsterdam (Osdorp-Midden) ...	€1,995 per month	80 m²
2	Apartment Bijlmerdreef	1103 TX Amsterdam (Bijlmer Oost (E...	€1,700 per month	74 m²
3	Apartment Kloveniersburgwal 60 2	1012 CX Amsterdam (Burgwallen-Oude...	€2,500 per month	100 m²
4	Apartment Banstraat 28 II	1071 KA Amsterdam (Museumkwartier)...	€5,250 per month	150 m²

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In [124... df.tail()
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Out[124...

	title	location	price	area
25	Apartment Julius Pergerstraat	1087 KP Amsterdam (IJburg Zuid) ...	€1,850 per month	80 m²
26	Apartment Laurierstraat 65 F	1016 PJ Amsterdam (Jordaan)	€2,550 per month	90 m²
27	Apartment Elandsgracht	1016 VB Amsterdam (Jordaan)	€1,900 per month	60 m²
28	Apartment Bonairestraat	1058 XL Amsterdam (Westindische Bu...	€2,350 per month	91 m²
29	Apartment Tweede Tuindwarsstraat 6 B	1015 RZ Amsterdam (Jordaan)	€2,750 per month	76 m²

```
In [125... df.to_csv('Real Estate.csv')
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