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SECTION: B

ASSIGNMENT: SOFTWARE TESTING

Write UI automated tests for the following test scenarios. You can use the programming language and tools that you prefer.

The purpose of writing this tests is to show your automation craftsmanship. Try to come up with solid solutions and present something that you are proud of. You can take the time you need, it's not about speed of execution or cutting corners, it's about the quality of the work.

Test: Verify that the results match the search criteria

Open www.airbnb.com.

Select Rome, Italy as a location.

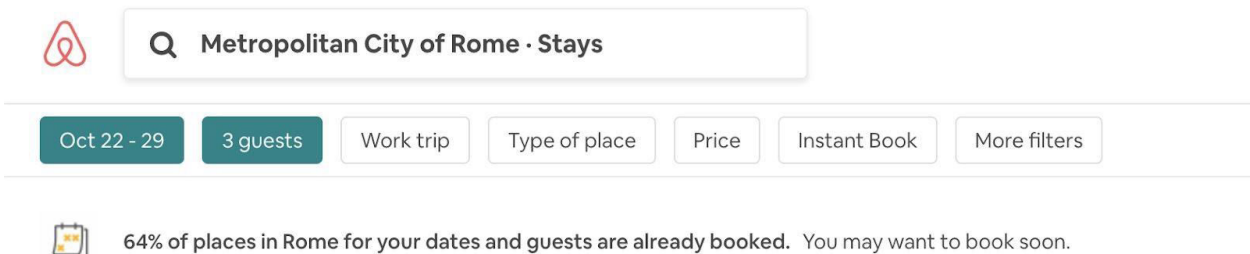
Pick a Check-In date one week after the current date.


Pick a Check-Out date one week after the Check-In date.


Select the number of guests as 2 adults and 1 child.

Search for properties.

Verify that the applied filters are correct.





 64% of places in Rome for your dates and guests are already booked. You may want to book soon.

Verify that the properties displayed on the first page can accommodate at least the selected number of guests.



```

from selenium import webdriver
from selenium.webdriver.chrome.service import Service
from webdriver_manager.chrome import ChromeDriverManager
from selenium.webdriver.common.by import By
from selenium.webdriver.support.wait import WebDriverWait
from selenium.webdriver.support import expected_conditions as EC
from selenium.webdriver.common.keys import Keys
import time

options = webdriver.ChromeOptions()
options.add_experimental_option("detach", True)
driver = webdriver.Chrome(options=options, service=Service(
    ChromeDriverManager().install()))
driver.get("https://www.airbnb.com/")

try:
    time.sleep(3)
    popUpButton = driver.find_element(By.CLASS_NAME, "czcfm7x")
    popUpButton.click()
except:
    print("No Pop Up")

finally:
    # def human_clicker_click(driver_arg, xpath):
    #     element = WebDriverWait(driver_arg, 10).until(
    #         EC.element_to_be_clickable((By.XPATH, xpath)))
    #     element.click()

    # def human_clicker_click_by_id(driver_arg, id):
    #     element = WebDriverWait(driver_arg, 10).until(
    #         EC.presence_of_element_located((By.ID, id)))
    #     element.click()
    time.sleep(5)
    mainSearchButton = driver.find_element(By.CLASS_NAME, "f19g2zq0")
    mainSearchButton.click()
    time.sleep(5)
    destinationSearch = driver.find_element(By.CLASS_NAME, "ivycze5")
    destinationSearch.send_keys("Rome, Italy")
    time.sleep(5)

```

```
for i in range(2):
    adultButtonSelector.click()
    time.sleep(2)
    childButtonSelector = driver.find_element(
        By.XPATH,
"/html[1]/body[1]/div[5]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[2]/div[1]/div[1]/div[1]/div[1]/div[1]/header[1]/div[1]/div[2]/div[1]/div[1]/div[1]/div[2]/div[1]/div[1]/div[1]/form[1]/div[2]/div[1]/div[5]/div[2]/div[1]/div[1]/div[1]/section[1]/div[1]/div[1]/div[1]/div[2]/div[2]/div[1]/button[2]/span[1]")

    childButtonSelector.click()
    time.sleep(2)

    searchButtonSelector = driver.find_element(
        By.XPATH,
"/html[1]/body[1]/div[5]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[2]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[2]/div[1]/div[1]/div[1]/form[1]/div[2]/div[1]/div[5]/div[1]/div[3]/button[1]")
    searchButtonSelector.click()
    time.sleep(5)

    ResultButtonSelector1 = driver.find_element(By.CLASS_NAME, "f1xx50dm")
    time.sleep(5)

    ResultButtonSelector2 = driver.find_element(
        By.XPATH,
"/html[1]/body[1]/div[5]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[2]/div[1]/div[1]/div[1]/div[1]/div[1]/button[2]/div[1]")
    time.sleep(5)

    ResultButtonSelector3 = driver.find_element(
        By.XPATH,
"/html[1]/body[1]/div[5]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[2]/div[1]/div[1]/div[1]/div[1]/div[1]/button[3]/div[1]")
```

```
# VERIFYING CODE
print(ResultButtonSelector2.text)
print(ResultButtonSelector3.text)

# and ResultButtonSelector2.text=="Jan 3 - 13(±7)":
if ResultButtonSelector1.text == "Rome" and ResultButtonSelector2.text == "Jan
8 - 17(±7)" and ResultButtonSelector3.text == "3 guests":
    print("Verified")
else:
    print("Unverified")
```

Test: Verify that the results and details page match the extra filters

Search for properties that match the same filters as the first test.

Click More filters.

Select the number of bedrooms as 5.

Select Pool from the Facilities section.

Oct 22 - 29

3 guests

Work trip

Type of place

Price

Instant Book

More filters

Rooms and beds

| | |
|-----------|--|
| Beds | <div><div>-</div><div>0+</div><div>+</div></div> |
| Bedrooms | <div><div>-</div><div>5+</div><div>+</div></div> |
| Bathrooms | <div><div>-</div><div>0+</div><div>+</div></div> |

Verified places

Airbnb Plus

A selection of places to stay verified for quality and design

X

Airbnb Luxe

Handpicked luxury homes with personally arranged services

X

Click Show Stays.

Verify that the properties displayed on the first page have at least the number of selected bedroom.

Open the details of the first property.

Check that in the Amenities popup Pool is displayed under Facilities category.

Facilities

Free parking on premises

Hot tub

Pool

Private or Shared

Dining

Coffee maker

```
time.sleep(5)
moreFilterButton = driver.find_element(
    By.XPATH,
    "/html[1]/body[1]/div[5]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[2]/div[1]/div[1]/div[1]/div[1]/div[1]/div[2]/div[1]/div[1]/button[1]")
moreFilterButton.click()

time.sleep(5)
driver.execute_script(
    "document.querySelector('#menuItemButton-5 button').click()")

time.sleep(5)
driver.execute_script("document.querySelector('._1ku51f04').click()")

time.sleep(5)
```

```

verifyBedRooms = driver.find_element(
    By.XPATH,
    "/html[1]/body[1]/div[5]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[2]/main[1]/div[2]/div[3]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[1]/div[4]/span[4]")

if verifyBedRooms.text == "5 bedrooms":
    print("Bedrooms Verified")
else:
    print("bedrooms not Verifies")

time.sleep(5)
propertyDetail = driver.find_element(
    By.XPATH, "(//*[@itemprop='itemListElement'])[1]")

propertyDetail.click()

driver.switch_to.new_window('tab')


```

Test: Verify that a property is displayed on the map correctly

Search for properties that match the same filters as the first test.

Hover over the first property.

Check that the property is displayed on the map and the color changes to indicate the selection.




Q Metropolitan City of Rome · Stays

Become a hostHelpSign upLog in

Oct 22 - 293 guestsWork tripType of placePriceInstant BookMore filters

Show Map

300+ places to stay



ENTIRE APARTMENT


Fregene Fiumicino Airport Blue Fish 2 Apartment

4 guests · 1 bedroom · 2 beds · 1 bath

Wifi · Kitchen · Air conditioning · Washer

★4.88 (89) · Superhost

lei358/night
lei2,504 total



ENTIRE APARTMENT

Fregene Fiumicino Airport Blue Fish 1 Apartment

RARE FIND

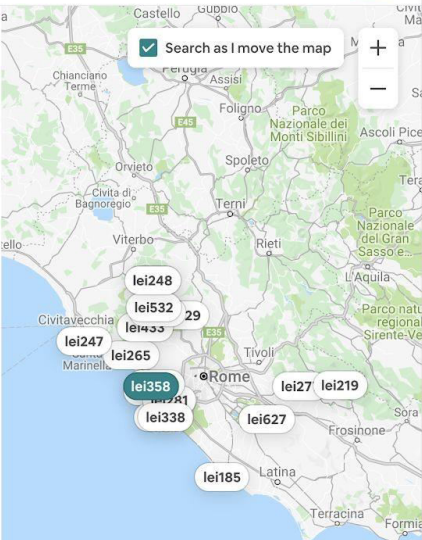
 · This place is usually booked.

4 guests · 1 bedroom · 1 bed · 1 bath


Wifi · Kitchen · Air conditioning · Washer

★4.96 (303) · Superhost

lei405/night
lei2,831 total



After identifying the property on the map, click it.
Verify that the details shown in the map popup are the same as the ones shown in the search results.




Q Metropolitan City of Rome · Stays

Become a hostHelpSign upLog in

Oct 22 - 293 guestsWork tripType of placePriceInstant BookMore filters

Show Map

300+ places to stay



ENTIRE APARTMENT

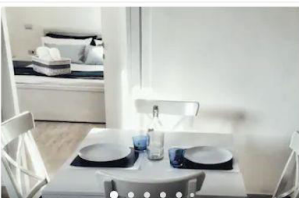
Fregene Fiumicino Airport Blue Fish 2 Apartment

4 guests · 1 bedroom · 2 beds · 1 bath

Wifi · Kitchen · Air conditioning · Washer

★4.88 (89) · Superhost

lei358/night
lei2,504 total



ENTIRE APARTMENT

Fregene Fiumicino Airport Blue Fish 1 Apartment

RARE FIND

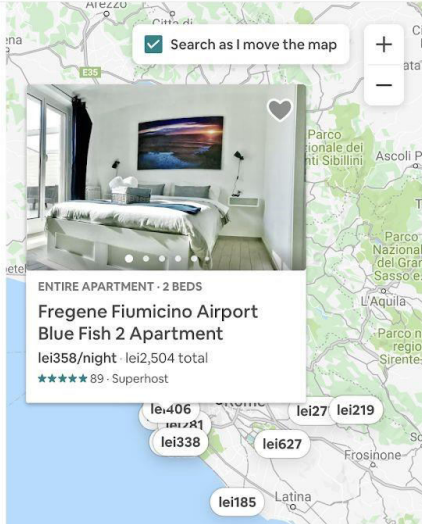
 · This place is usually booked.

4 guests · 1 bedroom · 1 bed · 1 bath

Wifi · Kitchen · Air conditioning · Washer

★4.96 (303) · Superhost

lei405/night
lei2,831 total




```

import unittest
from selenium import webdriver

class TestPropertyMapDisplay(unittest.TestCase):

    def setUp(self):
        # Set up webdriver
        self.driver = webdriver.Chrome()
        self.driver.get("http://www.example.com/property-search")

        # Set search filters
        self.driver.find_element_by_id("filter-price-min").send_keys("500000")
        self.driver.find_element_by_id("filter-price-max").send_keys("1000000")
        self.driver.find_element_by_id("filter-bedrooms").send_keys("3")

    def test_property_display_on_map(self):
        # Hover over first property in search results
        first_property = self.driver.find_element_by_css_selector("#search-results
li:first-child")
        self.driver.actions.move_to_element(first_property).perform()

        # Get property location on map
        property_location_on_map = self.driver.find_element_by_css_selector("#map
path[data-id='PROPERTY-ID']")

        # Check that property is displayed on map and color changes to indicate
selection
        self.assertTrue(property_location_on_map.is_displayed())
        self.assertEqual(property_location_on_map.get_attribute("fill"),
"#FF0000")

        # Click property on map
        property_location_on_map.click()

        # Get property details from map popup

```

```
        map_popup_title = self.driver.find_element_by_css_selector("#map-popup
h1").text
        map_popup_price = self.driver.find_element_by_css_selector("#map-popup
.price").text
        map_popup_bedrooms = self.driver.find_element_by_css_selector("#map-popup
.bedrooms").text

        # Get property details from search results
        search_result_title = self.driver.find_element_by_css_selector("#search-
results li:first-child h2").text
        search_result_price = self.driver.find_element_by_css_selector("#search-
results li:first-child .price").text
        search_result_bedrooms =
self.driver.find_element_by_css_selector("#search-#search-results li:first-child
.price").text
```