˅ Task 2: Test Automation Submission

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This submission covers the automated testing of the search functionality as described in the assignment. The automation script was implemented using **Python** and **Selenium**.

Overview

The script performs the following steps:

1. Opens the browser and navigates to the photo/album listing page.
2. Enters a search term into the search box.
3. Validates that the correct results appear based on the search term.

Tools and Libraries Used

- **Python**: For writing the automation script.
- **Selenium WebDriver**: To automate browser actions and validate the search functionality.

```
!pip install selenium
```

```
⇥  Requirement already satisfied: selenium in /usr/local/lib/python3.10/dist-packages (4.25.0)
    Requirement already satisfied: urllib3<3,>=1.26 in /usr/local/lib/python3.10/dist-packages (from url
    Requirement already satisfied: trio~=0.17 in /usr/local/lib/python3.10/dist-packages (from selenium)
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    Requirement already satisfied: websocket-client~=1.8 in /usr/local/lib/python3.10/dist-packages (fro
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    Requirement already satisfied: idna in /usr/local/lib/python3.10/dist-packages (from trio~=0.17->sel
    Requirement already satisfied: outcome in /usr/local/lib/python3.10/dist-packages (from trio~=0.17->
    Requirement already satisfied: sniffio>=1.3.0 in /usr/local/lib/python3.10/dist-packages (from trio~
    Requirement already satisfied: exceptiongroup in /usr/local/lib/python3.10/dist-packages (from trio~
    Requirement already satisfied: wsproto>=0.14 in /usr/local/lib/python3.10/dist-packages (from trio-w
    Requirement already satisfied: pysocks!=1.5.7,<2.0,>=1.5.6 in /usr/local/lib/python3.10/dist-package
    Requirement already satisfied: h11<1,>=0.9.0 in /usr/local/lib/python3.10/dist-packages (from wsprot
```

```
from selenium import webdriver
from selenium.webdriver.common.by import By
from selenium.webdriver.common.keys import Keys
import time

# 4 the Web Driver

driver = webdriver.Chrome()

# URL of the photo/album listing page
url = "http://localhost:3000/photo"

# Test Data
```

```python
    search_term = "sample photo title"

    try:
        # Step 1: Open the browser and navigate to the photo/album listing page
        driver.get(url)
        driver.maximize_window()

        # Step 2: Locate the search box element and enter the search term
        search_box = driver.find_element(By.ID, "searchBox")
        search_box.send_keys(search_term)
        search_box.send_keys(Keys.RETURN)

        # Pause to alloww search results to load
        time.sleep(3)

        # Step 3: Validate that the correct results appear
        results = driver.find_elements(By.CLASS_NAME, "photo-title")

        # Check if any result contains the search term
        search_results_valid = any(search_term.lower() in result.text.lower() for result in results)

        # Print results based on validation
        if search_results_valid:
            print("Test Passed: Search results correctly displayed.")
        else:
            print("Test Failed: Search results do not match the search term.")

    finally:
        # Step 4: Close the browser
        driver.quit()
```

Start coding or generate with AI.