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from selenium import webdriver
import time

# Function to verify page title
def verify_page_title(driver, expected_title):
    actual_title = driver.title
    assert actual_title == expected_title, f"Expected title: {expected_title}, but found: {actual_title}"

# Function to verify text on the page
def verify_text_on_page(driver, expected_text):
    page_text = driver.find_element_by_tag_name('h3').text
    assert page_text == expected_text, f"Expected text: {expected_text}, but found: {page_text}"

# Function to verify checkboxes status
def verify_checkboxes(driver, checkbox1_status, checkbox2_status):
    checkbox1 = driver.find_element_by_xpath("//input[@type='checkbox'][1]")
    checkbox2 = driver.find_element_by_xpath("//input[@type='checkbox'][2]")

    assert checkbox1.is_selected() == checkbox1_status, f"Checkbox 1 is not checked as expected"
    assert checkbox2.is_selected() == checkbox2_status, f"Checkbox 2 is not checked as expected"

# Function to navigate back to home page
def navigate_to_home_page(driver):
    driver.find_element_by_link_text('Home').click()

# Function to upload a file
def upload_file(driver, file_path):
    upload_button = driver.find_element_by_id('file-upload')
    upload_button.send_keys(file_path)
    driver.find_element_by_id('file-submit').click()

# Launching the browser
driver = webdriver.Chrome()
driver.maximize_window()

# Task 1: Verify page title
driver.get("http://the-internet.herokuapp.com/")
verify_page_title(driver, "The Internet")

# Task 2: Click on Checkboxes link and verify text and checkbox status
driver.find_element_by_link_text('Checkboxes').click()
verify_text_on_page(driver, "Checkboxes")
verify_checkboxes(driver, False, True)

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# Task 3: Navigate back to home page  
navigate_to_home_page(driver)
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# Task 4: Click on File Upload link and upload a file  
driver.find_element_by_link_text('File Upload').click()  
verify_text_on_page(driver, "File Uploader")  
file_path = "/Users/piyush/Documents/TestData.txt"  
upload_file(driver, file_path)
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