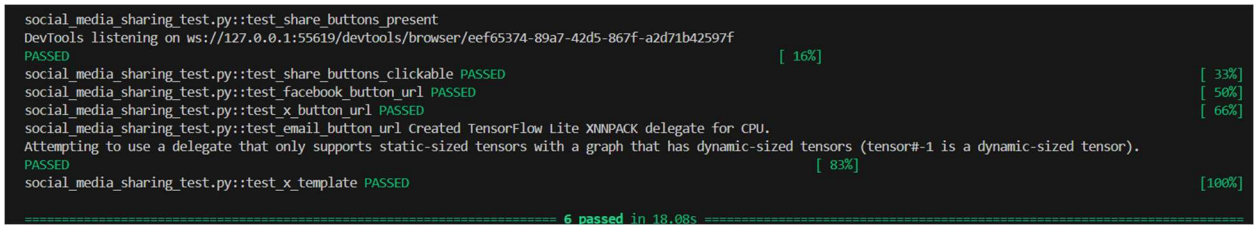
COSC 4P02 – Social Media Sharing Test Document:

Completed Automated Tests:



Test Execution Commands:

python -m pytest social_media_sharing_test.py -v

python -m pytest social_media_sharing_test.py -v -s (this will display the messages and content printed in the tests when run)

python -m pytest social_media_sharing_test.py -k "test_share_buttons_present" -s -v

python -m pytest social_media_sharing_test.py -k "test_share_buttons_clickable" -s -v

python -m pytest social_media_sharing_test.py -k "test_facebook_button_url" -s -v

python -m pytest social_media_sharing_test.py -k "test_x_button_url" -s -v

python -m pytest social_media_sharing_test.py -k "test_email_button_url" -s -v

python -m pytest social_media_sharing_test.py -k "test_x_template" -s -v

Method Test Cases and Descriptions:

test_share_buttons_present:

Test Case 1: Testing the presence of the social media share buttons. This will confirm that the buttons are present on the page. This method will check if the share buttons for Facebook, Twitter, and Email are present on the page. It uses the Selenium WebDriver (predefined as a fixture above) to navigate to our URL and check for the presence of the share buttons by their class names.

Expected Result: Pass. The share buttons should be present on the page.

test_share_buttons_clickable:

Test Case 2: Testing the clickability of the social media share buttons. This will confirm that the buttons are clickable while on the page. This method will check if the share buttons for Facebook, Twitter, and Email are clickable on the page. It uses the Selenium WebDriver (predefined as a fixture above) to navigate to our URL and check for the enabled share buttons by their class names.

Expected Result: Pass. The share buttons should be clickable on the page.

test_facebook_button_url:

Test Case 3: Testing that the Facebook share button redirects to the correct Facebook Post URL. This will confirm that the opened URL is correct when the Facebook share button is clicked. This method will check if the Facebook share button redirects to the correct Facebook Post URL when clicked. It uses the Selenium WebDriver (predefined as a fixture above) to navigate to our URL and click the Facebook share button. It then checks if the current (redirect) URL contains "facebook.com" to confirm that the redirect was successful.

Expected Result: Pass. The Facebook share button should redirect to the correct Facebook Post URL.

test_x_button_url:

Test Case 4: Testing that the X share button redirects to the correct X Post URL. This will confirm that the opened URL is correct when the X share button is clicked. This method will check if the X share button redirects to the correct X Post URL when clicked. It uses the Selenium WebDriver (predefined as a fixture above) to navigate to our URL and click the X share button. It then checks if the current (redirect) URL contains "x.com" to confirm that the redirect was successful.

Expected Result: Pass. The X share button should redirect to the correct X Post URL.

test_email_button_url:

Test Case 5: Testing that the email share button redirects to the correct blank URL, and then closes this URL. This will confirm that the redirect window opens and closes correctly when the email share button is clicked. This method will check if the email share button redirects to the about:blank URL when clicked. It uses the Selenium WebDriver (predefined as a fixture above) to navigate to our URL and click the email share button. It then checks if the current (redirect) URL contains "about:blank" to confirm that a new blank window opens and closes correctly. It also checks if the number of windows is the same as before clicking the email button, which would confirm that the redirect was successful, since Selenium does not check for non-browser windows. This is a workaround to test this functionality.

Expected Result: Pass. The email share button should redirect to the correct about:blank URL and then close this URL.

test_x_template:

Test Case 6: Testing the pre-populated X template when the share button is selected. This will confirm that the X template is correct. This method will check if the X template is pre-

populated with the correct text when the X share button is clicked. It uses the Selenium WebDriver (predefined as a fixture above) to navigate to our URLand check for the pre-populated X template by executing JavaScript to retrieve the text of the X template.

Expected Result: Pass. The X template should be pre-populated with the correct text.