from selenium import webdriver

from selenium.webdriver.common.keys import Keys

from selenium.webdriver.common.by import By

from selenium.webdriver.support.ui import WebDriverWait

from selenium.webdriver.support import expected\_conditions as EC

from selenium.common.exceptions import NoSuchElementException

import time

def scroll():

total\_height = int(driver.execute\_script("return document.body.scrollHeight"))

for i in range(1,total\_height,3):

driver.execute\_script("window.scrollTo(0, {});".format(i))

for i in range(total\_height,1,-3):

driver.execute\_script("window.scrollTo(0, {});".format(i))

PATH = "D:\selenium\installers\drivers\chromedriver.exe"

driver = webdriver.Chrome(PATH)

driver.get("https://www.thesparksfoundationsingapore.org")

print("Title :",driver.title)

driver.maximize\_window()

time.sleep(10)

print("\nCase 1: Logo Verification\n")

try:

driver.find\_element\_by\_xpath("//img[@src='/images/logo\_small.png']")

time.sleep(3)

print("Result: Logo exists\n")

except NoSuchElementException:

print("Result: Logo Does Not Exist\n")

print("="\*55)

print("Case 2: Navigation Bar Appearance\n")

try:

driver.find\_element\_by\_id("link-effect-3")

time.sleep(3)

print("Result: Navigation Bar Appears\n")

except NoSuchElementException:

print("Result: Navigation Bar Does Not Appear\n")

print("="\*55)

print("Case 3: Expert Mentors Page Content Verification\n")

try:

driver.find\_element\_by\_link\_text("About Us").click()

time.sleep(3)

driver.find\_element\_by\_link\_text("Expert Mentors").click()

time.sleep(3)

driver.find\_element\_by\_tag\_name('h3')

print("Result: Expert Mentors Page Exist\n")

except NoSuchElementException:

print("Result: Expert Mentors Page Does Not Exist\n")

print("="\*55)

print("Case 4: Workshops Page Verification\n")

try:

driver.find\_element\_by\_link\_text('Programs').click()

time.sleep(3)

driver.find\_element\_by\_link\_text("Workshops").click()

time.sleep(3)

driver.find\_element\_by\_link\_text('LEARN MORE').click()

time.sleep(3)

print("Result: Workshops Page Exists\n")

except NoSuchElementException:

print("Result: Workshops Page Does Not Exist\n")

print("="\*55)

print("Case 5: Links App Page Verification\n")

try:

driver.find\_element\_by\_link\_text("LINKS App").click()

time.sleep(3)

print("Result: Links App Page Exists\n")

except NoSuchElementException:

print("Result: Links App Page Does Not Exist\n")

time.sleep(3)

handles = driver.window\_handles

for i in handles:

driver.switch\_to.window(i)

# close specified web page

if driver.title == "Frames & windows":

time.sleep(2)

driver.close()

time.sleep(3)

print("="\*55)

print("Case 6: Map Authentication\n")

try:

driver.find\_element\_by\_link\_text("Contact Us").click()

time.sleep(3)

driver.find\_element\_by\_class\_name("map-agileits")

time.sleep(5)

print("Result: Map Exists\n")

except NoSuchElementException:

print("Result: Map Does Not Exist\n")

print("="\*55)

print("Case 7: Student Externships Program Verification\n")

try:

driver.find\_element\_by\_link\_text("Student Externships Program").click()

time.sleep(3)

driver.find\_element\_by\_tag\_name('h3')

time.sleep(3)

scroll()

time.sleep(0.5)

print("Result: Student Externships Page Is Undone\n")

except NoSuchElementException:

print("Result: Student Externships Page Is Done\n")

print("="\*55)

print("Case 8: Navigation Bar Widgets Verification\n")

try:

driver.find\_element\_by\_link\_text("Programs").click()

time.sleep(1)

driver.find\_element\_by\_link\_text("LINKS").click()

time.sleep(1)

driver.find\_element\_by\_link\_text("Join Us").click()

time.sleep(1)

driver.find\_element\_by\_link\_text("Contact Us").click()

time.sleep(1)

print("Result: Navigation Bar Widget Exists\n")

except NoSuchElementException:

print("Result: Navigation Bar Widget Does Not Exist")

print("="\*55)

print("Case 9: Facebook Widget Authentication\n")

try:

driver.find\_element\_by\_link\_text("About Us").click()

time.sleep(3)

driver.find\_element\_by\_link\_text("News").click()

time.sleep(3)

driver.find\_element\_by\_class\_name('fb-page')

time.sleep(5)

print("Result: Facebook Widget Exists\n")

except NoSuchElementException:

print("Result: Facebook Widget Does Not Exist")

print("="\*55)

print("Case 10: Copyright Notice Appearance\n")

try:

driver.find\_element\_by\_class\_name('copyright-wthree')

time.sleep(3)

print("Result: Copyright Notice Appears\n")

except NoSuchElementException:

print("Result: Copyright Notice Does Not Appear\n")

print("="\*55)

print("Testing is done for 6 pages and 10 elements in total\n")

time.sleep(3)