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import schedule
from selenium import webdriver
from selenium.webdriver.support.ui import WebDriverWait
from selenium.webdriver.support import expected_conditions as EC
from selenium.webdriver.common.keys import Keys
from selenium.webdriver.common.by import By
from selenium.common.exceptions import NoSuchElementException
from selenium.webdriver.common.action_chains import ActionChains
from selenium.webdriver.chrome.options import Options
import random
import time
import datetime
import os

browser = None
Contact = None
message = None
Link = "https://web.whatsapp.com/"
wait = None
choice = None
docChoice = None
doc_filename = None
unsaved_Contacts = None
lst=["hello!","hi","good morning","bye","gud night","asap","ttyl","okok","tc","how are you?","python","cse","A section","Raghu Engineering College","abc"]

def input_contacts():
    global Contact, unsaved_Contacts ,lst
    # List of Contacts
    Contact = []
    unsaved_Contacts = []
    while True:
        # Enter your choice 1 or 2
        print("PLEASE CHOOSE ONE OF THE OPTIONS:\n")
        print("1.Message to Saved Contact number")
        print("2.Message to Unsaved Contact number")
        print("3.Random spam message\n")
        x = int(input("Enter your choice(1 or 2 or 3):\n"))
        print()
        if x == 1:
            n = int(input('Enter number of Contacts to add(count)->'))
            print()
            for i in range(0, n):
                inp = str(input("Enter contact name(text)->"))
                inp = "" + inp + ""
                Contact.append(inp)
            elif x == 2:
                n = int(input('Enter number of unsaved Contacts to add(count)->'))
                print()

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    for i in range(0, n):

        inp = str(input("Enter unsaved contact number with country code(interger):\n\nValid input:
91943xxxxx12\nInvalid input: +91943xxxxx12\n\n"))
        unsaved_Contacts.append(inp)
    elif x == 3:
        random_mess()
    if x != 3:
        choi = input("Do you want to add more contacts(y/n)->")
        if choi == "n":
            break

if len(Contact) != 0:
    print("\nSaved contacts entered list->", Contact)
if len(unsaved_Contacts) != 0:
    print("Unsaved numbers entered list->", unsaved_Contacts)
input("\nPress ENTER to continue...")

def random_mess():

    target = input("Enter contact name : ")
    target = "" + target + ""
    count = int(input("Enter number of times you want to send messages : "))
    whatsapp_login()
    x_arg = '//span[contains(@title,' + target + ')]'
    #By.XPATH specifies a specific attribute in browser for example your message box
    #wait.until() specifies that wait until your condition is found
    group_title = wait.until(EC.presence_of_element_located((By.XPATH, x_arg)))
    #Now we perform the click task of the group_title to check every condition
    group_title.click()
    #Here input text xpath should be given for your input text message box
    inp_xpath = '//*[@id="main"]/footer/div[1]/div[2]/div/div[2]'
    #This statement will perform the same task of waiting until your condition is satisfied
    input_box = wait.until(EC.presence_of_element_located((By.XPATH, inp_xpath)))
    #Now for loop does the work of sending your content how many times you want to repeat
    for i in range(0,count):
        a=random.choice(lst)
        input_box.send_keys(a + Keys.ENTER)
        time.sleep(1)

def input_message():
    global message
    print()
    print("Enter the message and use the symbol '~' to end the message:\nFor example: Hi, this is a test
message~\n\nYour message: ")
    message = []
    temp = ""
    done = False

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while not done:
    temp = input()
    if len(temp) != 0 and temp[-1] == "~":
        done = True
        message.append(temp[:-1])
    else:
        message.append(temp)
message = "\n".join(message)
print()
print(message)

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def whatsapp_login():
    global wait, browser, Link
    chrome_options = Options()
    chrome_options.add_argument('--user-data-dir=./User_Data')
    browser = webdriver.Chrome(options=chrome_options)
    wait = WebDriverWait(browser, 600)
    browser.get(Link)
    browser.maximize_window()
    print("QR scanned")

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def send_message(target):
    global message, wait, browser
    try:
        x_arg = '//span[contains(@title,' + target + ')]'
        ct = 0
        while ct != 10:
            try:
                group_title = wait.until(EC.presence_of_element_located((By.XPATH, x_arg)))
                group_title.click()
                break
            except:
                ct += 1
                time.sleep(3)
        input_box = browser.find_element_by_xpath('//*[@id="main"]/footer/div[1]/div[2]/div/div[2]')
        for ch in message:
            if ch == "\n":

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ActionChains(browser).key_down(Keys.SHIFT).key_down(Keys.ENTER).key_up(Keys.ENTER).key_up(Keys.SHIFT).key_up(Keys.BACKSPACE).perform()
    else:
        input_box.send_keys(ch)
        input_box.send_keys(Keys.ENTER)
        print("Message sent successfully")
        time.sleep(1)
    except NoSuchElementException:
        return

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def send_unsaved_contact_message():
    global message
    try:
        time.sleep(7)
        input_box = browser.find_element_by_xpath('//*[@id="main"]/footer/div[1]/div[2]/div/div[2]')
        for ch in message:
            if ch == "\n":
                ActionChains(browser).key_down(Keys.SHIFT).key_down(Keys.ENTER).key_up(Keys.ENTER).key_up(Keys.SHIFT).key_up(Keys.BACKSPACE).perform()
            else:
                input_box.send_keys(ch)
        input_box.send_keys(Keys.ENTER)
        print("Message sent successfully")
    except NoSuchElementException:
        print("Failed to send message")
    return

def sender():
    global Contact, choice, docChoice, unsaved_Contacts
    for i in Contact:
        send_message(i)
        print("Message sent to ", i)

    time.sleep(5)
    if len(unsaved_Contacts) > 0:
        for i in unsaved_Contacts:
            link = "https://wa.me/" + i
            browser.get(link)
            time.sleep(1)
            browser.find_element_by_xpath('//*[@id="action-button"]').click()
            time.sleep(2)
            browser.find_element_by_xpath('//*[@id="fallback_block"]/div/div/a').click()
            time.sleep(4)
            print("Sending message to", i)
            send_unsaved_contact_message()
            if(choice == "yes"):
                try:
                    send_attachment()
                except:
                    print('Attachment not sent.')
            if(docChoice == "yes"):
                try:
                    send_files()
                except:
                    print('Files not sent')
            time.sleep(7)

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```
# To schedule your msgs
def scheduler():
    while True:
        schedule.run_pending()
        time.sleep(1)

if __name__ == "__main__":

    print("Web Page Open")

    input_contacts()

    input_message()

    isSchedule = input('Do you want to schedule your Message(yes/no):')
    if(isSchedule == "yes"):
        jobtime = input('input time in 24 hour (HH:MM) format - ')

    print("SCAN YOUR QR CODE FOR WHATSAPP WEB")
    whatsapp_login()

    if(isSchedule == "yes"):
        schedule.every().day.at(jobtime).do(sender)
    else:
        sender()

    print("Task Completed")
    scheduler()

    browser.quit()
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