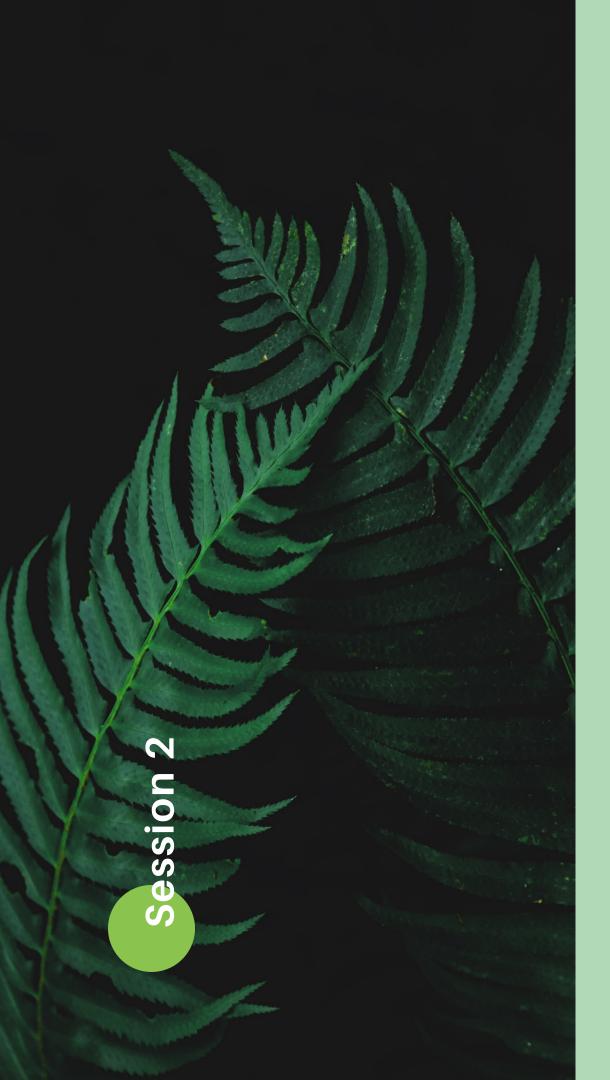


Sylabus

PREREQUISITION	SESSION 1	SESSION 2	SESSION 3	SESSION 4
Python Basic	Introduction to Selenium Python Basic Navigation	Locating Element Waits, Alerts Pop Up	Navigation & Action Chains	Pytest: an introduction to testing framework

WE ARE HERE



Locating Element Waits Alerts Pop up

Apa itu Web Element?

sebuah element adalah entitas pada aplikasi yang di render menjadi halaman web.

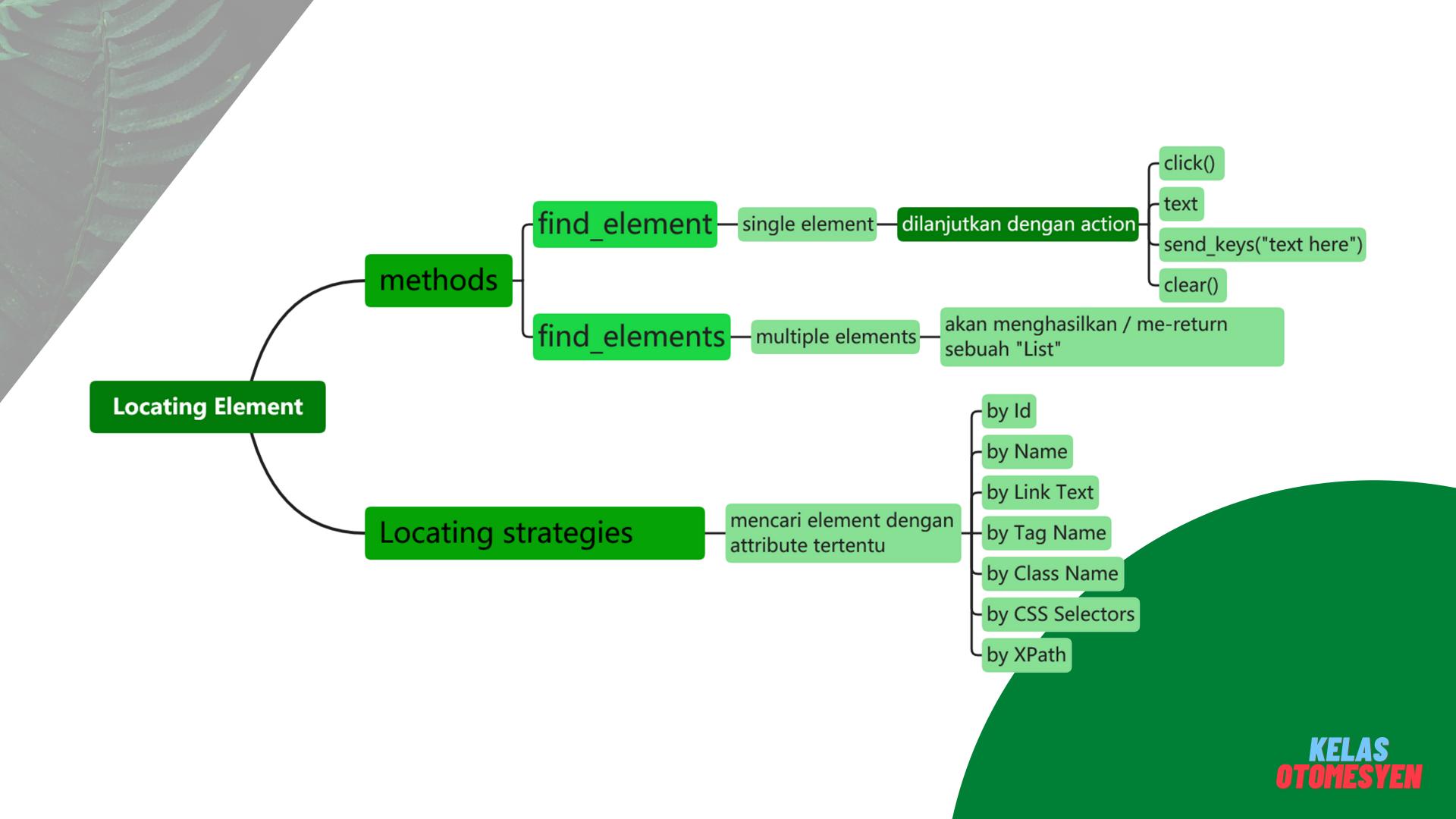
https://fachrul.id/



what defines a web element on a page?

- Attribute
- text
- tag
- CSS
- xpath





```
from selenium.webdriver.common.by import By

driver.find_element(By.XPATH, '//button[text()="Some text"]')
driver.find_elements(By.XPATH, '//button')
```







Xpath

Absolute Xpath

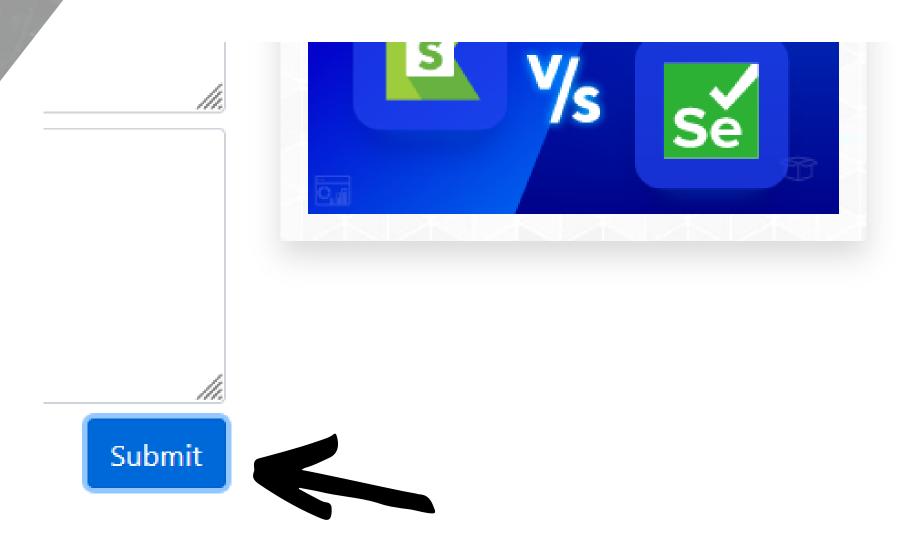
/html[1]/body[1]/div[2]/div[1]/div[1]/div[2]/div[2]/div[1]/form[1]/div[5]/div[1]/button[1]

Relative Xpath

//button[@id='submit']



XPath = //tagname[@Attribute = 'value']



```
tag name value
             v id="permanentAddress-wrapper" class="mt-2 row"> ... </div>
               class="mt-v justify-content-end row"> flex
                class="text-right col-md-2 col-sm-12">
              <button id="submit" class="btn btn-primary" type="button">
             Submit</b/>
/b/nton> event
           </div>
          </div>
        ▶ <div id="output" class="mt-4 row"> ••• </div> flex
        </form>
      </div> attribute
     ▶ <div class="mt-40"> ··· </div>
nt-end.row > div.text-right.col-md-2.col-sm-12 > button#submit.btn.btn-primary >
₹ Filter Styles
                                                  Computed
                                    ▶ Layout
                                                                Changes
:hov .cls + 🔆 🚺 🗈
                                    ▼ Flexbox
```

Waits

Implicitly Wait

Sebuah Implicitly Wait akan memberitahukan WebDriver untuk melakukan polling DOM selama jangka waktu tertentu, ketika mencoba menemukan elemen yang belum tersedia.

Explicitly Wait

Sebuah code yang ditetapkan untuk menunggu kondisi tertentu terjadi sebelum melanjutkan script/code lebih jauh.



Implicitly Waits

Note:
cukup ditulis 1x
idealnya sebelum membuka
halaman web

```
from selenium import webdriver
driver = webdriver.Chrome()
driver.implicitly_wait(10)
driver.get('https://noobtest.id')
```



Explicitly Waits

```
from selenium import webdriver
from selenium.webdriver.support import expected_conditions as EC
from selenium.webdriver.support.ui import WebDriverWait
from selenium.common.exceptions import TimeoutException
driver = webdriver.Chrome()
driver.get('https://noobtest.id')
try:
   WebDriverWait(driver, 10).until(EC.title_contains('Testers'))
   Title = driver.title
    print(Title)
except TimeoutException:
    print('gak muncul bang')
    pass
```



Expected Conditions

- title_is
- title_contains
- presence_of_element_located
- visibility_of_element_located
- visibility_of
- presence_of_all_elements_located
- text_to_be_present_in_element
- text_to_be_present_in_element_value
- frame_to_be_available_and_switch_to_it
- invisibility_of_element_located
- element_to_be_clickable
- staleness_of
- element_to_be_selected
- element_located_to_be_selected
- element_selection_state_to_be
- element_located_selection_state_to_be
- alert_is_present





Setelah kita tahu tentang waits, mari minimalisir menggunakan sleep untuk web auto.



Alerts

Alert

demoqa.com menyatakan
You clicked a button

Oke

Oke

Confirmation

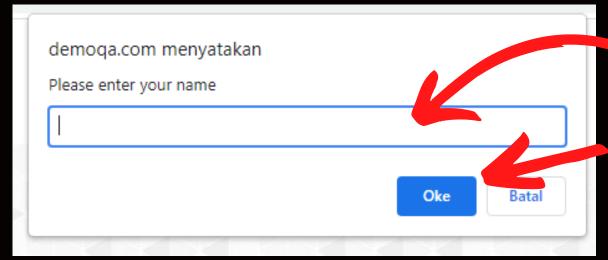
demoqa.com menyatakan
Do you confirm action?

Oke

Batal

driver.switch_to.alert.accept()
driver.switch_to.alert.dismiss()

Prompt



driver.switch_to.alert.send_keys()
driver.switch_to.alert.accept()





QSA

Tugas

Buat automation dari halaman berikut:

https://demoqa.com/webtables

Masukkan 3 buah data user sebagai berikut dengan menggunakan Selenium Python Firstname, Lastname, Age, Email, Salary, Departemen.

contoh:

Firstname: Aria

Lastname : Suseno

Age : 200

Email: uno@idejongkok.co

Salary: Infinite

Departemen: Store

bikin 3

Syarat wajib:

• tidak menggunakan bantuan library lain selain selenium dan library bawaan Python.

Pengumpulan Tugas:

- Simpan program di repository Github kalian.
- Kirim link repo-nya ke <u>D</u>M Telegram
- Paling lambat Jam 6 Sore sebelum Session depan dimulai.
- Silahkan berdiskusi di grup kelas, tapi <u>tidak saling share jawaban.</u>



Cabs Skuy.