Amazon Webscraping using Automation Test Suite

Aaryaman Gupta

Why this testing suite?

- This project is a one stop shop for all automation needs like web testing, web scraping, monitoring and data population using simple commands.
- It enhances flexibility of maintaining the continuity of data, in lengthy automation scenarios through excel workbook.
- The excel tables and predefined columns makes it easy to visualize the dataflow.
- · Suite is useful in simplifying the test and flow management in most scenarios, for those having no code knowledge.
- The available source code can be altered using minimum steps.
- · Data is generated sequentially in logs and json files in easy to reuse format.
- · Pytest and AI is in queue. Possibility of exploring similar features are endless.

Will this work for me?

- This suite can cater from simplest to highly complex programs. Features to add short code snippets in excel itself is inbuilt. Any user with minimal knowledge of Python can use the feature as entire automation is handled by the application.
- · New features are being developed to minimise coding requirement for user and maximise flexibility & functionality in excel sheet.

Tech?

• The code engages with browser automation using Playwright. Possiblities are being explored to support Selenium, API testing and mobile testing (Appium) using the same excel format.

Building the project

- 1) Clone the project to your desired directory git clone git@github.com:BoneyGupta/Amazon-Webscraping.git
- 2) Add the required libraries

Prerequisites:

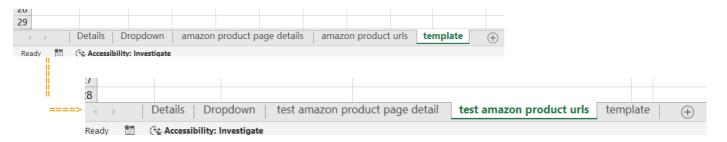
- **Python**: Ensure you have Python 3.7 or later installed on your system. You can check your Python version by running python -- version in your terminal or command prompt.
- pip: Make sure pip, the Python package installer, is also installed. If not, you can install it by following the instructions for your opera
 - > Windows: Download and run the get-pip.py script from https://bootstrap.pypa.io/get-pip.py.
 - > macOS/Linux: Open your terminal and run python3 -m pip install --upgrade pip.

Installation:

- · Open your terminal or command prompt.
- · Install Playwright using pip: pip install playwright
- · Install the Playwright browser binaries: playwright install
- · Install openpyxl: pip install openpyxl
- 5) Add Chrome Application folder to your directory (If cdp is required)
 - · Install Chrome Browser on your device.
 - Copy the folder C:\Program Files\Google\Chrome\Application and add it to your directory.
 - Open command line runner and run the command chrome.exe --remote-debugging-port=9988 --user-data-dir=..\\chromedata
 - · Wait for the browser to open and in the running browser login to the desired website.
- 6) Run the program python main.py
- 7) Enter the query when prompted
- 8) Get the reports from Reports folder.

Step 1: First steps to start the process

- 1) Go the the automation testing suite directory >> open excel directory
- 2) Open the Test.xlsx for your first program(you can refer to 'Template.xlsx' and 'Automation Test Suite Commands.xlsx') Presently, only the excel file named as 'Test.xlsx' will be run for automation.
- 3) A pre-filled sheets will be present for your aide.
- 4) There are three required sheets (Details, Sheet having 'test' in its name and Dropdown) for the execution of test cases. Update the name of all the sheets which are up for testing with 'test' as prefix.



All the sheets and fields are described with the help of test case: amazon product page details

Step 2: Details Entry

Open the 'Details' sheet in 'Test.xlsx

Test Name	Amazon Test
Browser	Chrome
Website	https://www.amazon.in
Headless	TRUE
cdp	TRUE

Field entry options: Any alphanumeric value Chrome, Firefox, Edge Complete website url TRUE, FALSE

TRUE, FALSE

Description:

Declares the name of the Test

Select a browser

Website names should be complete with https:// or similar prefix Headless testing is a testing which allows the browser to run in the backgroud without GUI.

cdp is required when we want to work with already logged on browser with wesites which requires login or captcha. Do not support Headless

Step 3: Create a test Sheet

Create a new sheet with the below columns and add 'test' prefix if you want to run it as a test.

	Α	В	С	D	E	F	G	Н	1	J	K	L	M	N	О	P
1	1	2	3	4	5	6	7	8	13	9	10	11	12	15	16	17
2 E	lement ID	Description	Execute	Locator	nth	Action	Value	Assert	Condition	Assert Value	Stored Value Key	Wait(ms)	URL	File Path	Conditonal Key	Conditional Statement dictionary: dict ={}
3																
4																
5										T						

*Next steps might be optional depending on the test.

- 1) Fill in the Element ID(User can add any alphanumeric value depending on their organization)
- 2) Performing a basic action
 - >> Add the locator of the element
 - >> Add nth (in case of multiple elements with same locator)
 - >> Add the action you want to perform (Actions can be viewed from Dropdown sheet)
 - >> Add the value (Search Item name) you wish to pass through the action
 - >> add a wait timer (default is 3000 millisecond) which waits for the element to be interactable.

Now we can open amazon.in go to the search box, fill up 'smartphone' and click search.

Δ	Α	В	С	D	E	F	G	Н	1	J	K	L	М	N	0	
1	1	2	3	4	5	6	7	8	13	9	10	11	12	15		
	Element									Assert	Stored				Conditonal	Со
2	ID	Description	Execute	Locator	nth	Action	Value	Assert	Condition	Value	Value Key	Wait(ms)	URL	File Path	Key	
3	2	Fill the Search Box in amazon.in		//input[@id	d="twotabse	fill	Smartphone	!				30000				
4	3	Click Search		//input[@id	d='nav-seard	click						15000				Г
5																Т

- 3) Add an assertion
 - >> hard assertion means the test will terminate on error
 - >> soft means the test will continue with logging the case as failed
 - >> if assertion is left blank, in case of any error, the test will terminate.
 - >> fill the assert type, the assert condition and the assert value if required.

In element id 5 and 6, we are checking for the elements to be attached to the DOM and storing the text content of product title and rating in a dictionary.

Δ	Α	В	С	D	Е	F	G	Н	1	J	K	L	М	N	0	
1	1	2	3	4	5	6	7	8	13	9	10	11	12	15		
	Element									Assert	Stored				Conditonal	Co
2	ID	Description	Execute	Locator	nth	Action	Value	Assert	Condition	Value	Value Key	Wait(ms)	URL	File Path	Key	
3	2	Fill the Search Box in amazon.in		//input[@ic	l="twotabse	fill	Smartphone	e				30000				
4	3	Click Search		//input[@ic	l='nav-searc	click						15000				
5																
_																

4) Add a loop

There are 3 types of looping sequence we can use

	Loop Type 1 : Simple Loop										
Description	Locator	nth	Action	Value	Assert	Condition	Assert Value	Stored Value Key	This is a simple loop. The loop will iterate through all the		
start loop	locator		test rov	vs goes here				key	elements in the element list created through the given locator. The key is given to store loop data in the reference loop dictionary and		
end loop									data dictionary.		

	Loop Type 2 : end case											
Description		Locator	nth	Action	Value	Assert	Condition	Assert Value		Same as the above but the loop may end prematurely if		
start loop	locator								key	the end loop assertion fails		
				test rov	vs goes here							
end loop	Locator					soft/hard	condition	assert value				

	Loop Type 3 : end case continuous												
								Stored Value	The loop can continue				
Description	Locator	nth	Action	Value	Assert	Condition	Assert Value	Key	endlessly until the end loop				
start loop	locator							key	assertion fails. The length of element list does not matter				
	test rows goes here												
end loop									in this loop type				
continuous	locator				soft/hard	condition	assert value						

Step 4: Get the results

There are 5 documents of results that are extracted from the test.

• Code Progression (code_prog.log) Details of the code that is run sequentially due to our test.

• Logs (logs.log) Logs of the test run.

• Sequential Data (data.json) Data in the form of sequence. We can get the flow of the code using this json along

with the retrieved data

• Reference Data (reference_data.json) We can obtain all the data retrieved in the form of json

• Reference Loop Data (ref_loop_data.json) We can get the data retrived in each loop

- $\mbox{\ }^{\mbox{\ }}$ Tasks which require python knowlege are given in this pdf in the Dev sheet
- There are other functionalities and data entry method which will enable user to perform other tasks. The methods of which are given in details in the next sheets.

Details Data Entry

T4 N	Tailai	>> (Any text value)				
Test Name	Trial	1 ' 1				
Browser	Chrome	>> (Chrome, Firefox, Edge)				
Website	https://www.amazon.in	>> (Complete website url)				
Headless	TRUE	>>(TRUE, FALSE)				
		>>(TRUE, FALSE)				
cdp	TRUE					
Tech	Playwright,Selenium,Appium					
numprocessess		Pytest				
verbose						
keyword						
m			₽			
exitfirst			ξ			
last-failed			₹			
maxfail			ວ			
headed	TRUE		₹			
browser-channel			Ž			
browser		ا ا	2			
slowmo			J			
device			Š			
tracing			5			
screenshot			ğ			
video			Functionality Not Developed Yet			
full-page-screenshot		ا ا	<u>p</u>			
base-url						
output						
template						
report						

- · Declares the name of the Test
- · Select a browser
- Website names should be complete with https:// or similar prefix
- Headless testing is a testing which allows the browser to run in the backgroud without GUI
- cdp is required when we want to work with already logged on browser with wesites which requires login or captcha. Do not support Headless testing

Action Data Entry and Code

Description	Locator	nth	Action	Value	Stored Value Key	URL	File Path	Code
Clicks on an element.	locator	nth	click					page.locator(locator).nth(nth).click()
Fills an input element with text.	locator	nth	fill	value				page.locator(locator).nth(nth).fill(value)
Presses a specific key or combination of keys.	locator	nth	press	value				page.locator(locator).nth(nth).press(value)
Double-clicks on an element.	locator	nth	double click	value				page.locator(locator).nth(nth).double_click()
Sets the focus on an element.	locator	nth	focus					page.locator(locator).nth(nth).focus()
Hovers the mouse over an element.	locator	nth	hover					page.locator(locator).nth(nth).hover()
Selects a specific option from a select element.	locator	nth	select option	value				page.locator(locator).nth(nth).select_option(value)
Selects multiple options from a select element.	locator	nth	select options	"value1"," value2"				page.locator(locator).nth(nth).select_options(value)
Gets the text content of an element.	locator	nth	text content		key			data = page.locator(tr.locator).first.text_content()
Gets the inner text content of an element.	locator	nth	inner text		key			data = page.locator(locator).nth(nth).inner_text()
Gets the value of a specified attribute from an element.	locator	nth	get attribute		key			data = page.locator(locator).nth(nth).get_attribute(f"{tr.value}")
Checks if a checkbox or radio button is checked.	locator	nth	is checked		key			data = page.locator(locator).nth(nth).is_checked()
Checks if an element is disabled.	locator	nth	is disabled		key			data = page.locator(locator).nth(nth).is disabled()
Checks if an element is visible.	locator	nth	is visible		key			data = page.locator(locator).nth(nth).is visible()
Checks if an element is hidden.	locator	nth	is hidden		key			data = page.locator(locator).nth(nth).is_hidden()
Checks if an element is enabled.	locator	nth	is enabled		key			data = page.locator(locator).nth(nth).is_enabled()
Gets the number of matching elements.	locator	nth	count	value	key			data = page.locator(locator).nth(nth).count()
Gets the inner text of all matching elements.	locator	nth	all inner texts		key			data = page.locator(locator).nth(nth).all_inner_texts()
Gets the text content of all matching elements.	locator	nth	all text contents		key			data = page.locator(locator).nth(nth).all_text_contents()
Opens a link in a new tab.			open in new tab			url		new_window = page.context.new_page() new_window.goto(url) new_window.bring_to_front()
Gets the parent tab of a window.			parent tab					total_pages = page.context.pages total_pages[0].bring_to_front()
Closes the current tab.			close tab					page.close()
In a loop, it navigates to the newly opened tab.			loop new tab					
Opens a link.			open link			url		page.goto(url)
Takes a screenshot of the entire			·					page.wait_for_load_state("load") page.screenshot(path=f"{logs.directory_path}\time.
page.			page screenshot				screenshot.png	
Takes a screenshot of a specific element.	locator	nth	element screenshot				screenshot.png	page.wait_for_load_state("load") page.locator(tr.locator).screenshot(path=f"{logs.directory_path} \\elescrnsht{time.strftime("%H%M%S")}{tr.filepath}")
Gets the current URL of the	locator	nth	get nage url		kov			data = page url
page. Stores the url an row to restart	locator	nth	get page url		key			data = page.url
the program incase of failure			master url					
Launches a new browser instance an open master url of current page			fresh browser					browser = pw.chromium.launch(headless=headless) context = browser.new_context() page = context.new_page() page.goto(master_url)
Create html file which has the links of all the urls from reference dictionary,			create html	key(which has the urls from reference dictionary)			url.html	
Selects all matching elements.			all	.,				
Stores the value of an element in a variable.			store					
Sets the files for a file input element.			set Input Files					
Gets the inner HTML content of an element.			inner HTML					
Waits for a specific condition to be met.			wait for					
Waits for an element to reach a specific state (e.g., visible, hidden, stable).			wait for element state					
Takes a screenshot of the page or an element.			screenshot					
Gets the bounding box of an element.			bounding box					
Combines locators using logical AND.			and					
Filters a list of elements based on a condition			filter					

Selects the first matching element.	first	
Selects the last matching element.	last	
Selects the nth matching element.	nth	
Selects elements based on their text content.	with text	
Checks a checkbox or radio button.	check	

Wait Data Entry, Code and Exception Handling

Description	Locator	nth	Assert	Wait(ms)	Code	try/catch
	locator nth soft timeout		timeout	page.locator(locator).nth(nth).wait_for(timeout=timeout)	Yes	
	locator		soft	timeout	page.wait_for_selector(locator, timeout=timeout)	Yes
Wait	locator	nth		timeout	page.locator(locator).nth(nth).wait_for(timeout=timeout)	No
	locator			timeout	page.wait_for_selector(locator, timeout=timeout)	No
	locator		hard	timeout	print("No explicit waiting can be performed")	No

- The wait function can be merged with Action, Assert, Execute and Loop functions. Further details availiaible in their respective sheets.
- This is not meant to be a standalone function but can be used as such.

Assertion Data Entry and Code

Description	Locator	nth	Assert	Condition	Assert Value	Code
The element is attached to the DOM.	locator	nth	soft/hard	to be attached		expect(page.locator(locator).nth(nth),element not present in page/dynamic element).to_be_attached()
The element is checked (for checkboxes or radio buttons).	locator	nth	soft/hard	to be checked		expect(page.locator(locator).nth(nth),element not present in page/dynamic element).to_be_checked()
The element is disabled.	locator	nth	· .	to be disabled		expect(page.locator(locator).nth(nth),element is not disabled).to_be_disabled()
The element is editable (e.g., input fields).	locator	nth	soft/hard	to be editable		expect(page.locator(locator).nth(nth),element is not editable).to be editable()
The element's value is empty.	locator	nth		to be empty		expect(page.locator(locator).nth(nth),element is not empty).to_be_empty()
The element is enabled (not disabled).	locator	nth	soft/hard	to be enabled		expect(page.locator(locator).nth(nth),element is not enabled).to_be_enabled()
The element has focus.	locator	nth		to be focused		expect(page.locator(locator).nth(nth),element is not focused).to_be_focused()
The element is hidden (not visible).	locator	nth	soft/hard	to be hidden		expect(page.locator(locator).nth(nth),element is not hidden).to_be_hidden()
The element is partially or fully visible within the viewport.	locator	nth	soft/hard	to be in viewport		expect(page.locator(locator).nth(nth),element is not in viewport). to_be_in_viewport()
The element is visible.	locator	nth	soft/hard	to be visible		expect(page.locator(locator).nth(nth),element is not visible).to_be_visible()
The element contains the specified text.	locator	nth	soft/hard	to contain text	partial text	expect(page.locator(locator).nth(nth),element does not contain text). to_contain_text(assert_value)
The element has an accessible description.	locator	nth	soft/hard	to have accessible description	value	expect(page.locator(locator).nth(nth),element does not have accessible description).to_have_accessible_description(assert_value)
The element has an accessible				to have accessible		expect(page.locator(locator).nth(nth),element does not have accessible name).
name.	locator	nth	soft/hard	name	value "attribute","	to_have_accessible_name(assert_value)
The element has the specified attribute. The element has the specified	locator	nth	soft/hard	to have attribute	expected_value"	expect(page.locator(locator).nth(nth),element is not empty).to_have_attribute (assert_value) expect(page.locator(locator).nth(nth),element does not have class).
class.	locator	nth	soft/hard	to have class	class	to_have_class(assert_value)
The locator matches the specified number of elements.	locator	nth	soft/hard	to have count	count	expect(page.locator(locator).nth(nth),element does not have count). to_have_count(assert_value)
The element has the specified CSS property.	locator	nth	soft/hard	to have css	css	expect(page.locator(locator).nth(nth),element does not have css).to_have_css (assert_value)
The element has the specified ID.	locator	nth	soft/hard	to have id	id	expect(page.locator(locator).nth(nth),element does not have id).to_have_id (assert_value)
The element has the specified JavaScript property.	locator	nth	soft/hard	to have js property	"property"," expected_value"	expect(page.locator(locator).nth(nth),element does not have the js properties). to_have_js_property(assert_value)
The element has the specified ARIA role.	locator	nth	soft/hard	to have role	role	expect(page.locator(locator).nth(nth),element does not have the role). to_have_role(assert_value)
The element contains text.	locator	nth	soft/hard	to have text	text	expect(page.locator(locator).nth(nth),element does not have the text). to_have_text(assert_value)
The element has the specified	loostor	nth	soft/bard	4- h	value	expect(page.locator(locator).nth(nth),element does not have the value).
value. The element has multiple values (e.g., for select elements).	locator	nth		to have value	value "value1","value2"	to_have_value(assert_value) expect(page.locator(locator).nth(nth),element do not have the values). to_have_values([assert_value])
The element has the specified title attribute.				to have title	title	expect(page,page does not have title).to_have_title(assert_value)
The element has the specified URL (e.g., for links).			soft/hard	to have url	url	expect(page,page does not have url).to have url(assert value)
The page load was successful	locator	nth	soft/hard			, , , , , , , , , , , , , , , , , , , ,
and there are no errors. The element is not attached to	locator	nth	,			expect(page.locator(locator).nth(nth),element is not ok).to_be_ok() expect(page.locator(locator).nth(nth),element is present in page/dynamic
the DOM. The element is not checked (for	locator	nth	soft/hard	not to be attached		element).not_to_be_attached()
checkboxes or radio buttons).	locator	nth	· .	not to be checked		expect(page.locator(locator).nth(nth),element is checked).not_to_be_checked()
The element is not disabled.	locator	nth	soft/hard	not to be disabled		expect(page.locator(locator).nth(nth),element is disabled).not_to_be_disabled()
The element is not editable (e. g., input fields).	locator	nth	soft/hard	not to be editable		expect(page.locator(locator).nth(nth),element is editable).not_to_be_editable()
The element's value is not empty.	locator	nth	soft/hard	not to be empty		expect(page.locator(locator).nth(nth),element is empty).not_to_be_empty()
The element is not enabled (disabled).	locator	nth	soft/hard	not to be enabled		expect(page.locator(locator).nth(nth),element is enabled).not_to_be_enabled()
The element does not have focus.	locator	nth	soft/hard	not to be focused		expect(page.locator(locator).nth(nth),element is focused).not_to_be_focused()
The element is not hidden (visible).	locator	nth	soft/hard	not to be hidden		expect(page.locator(locator).nth(nth),element is hidden).not_to_be_hidden()
The element is not partially or fully visible within the viewport.	locator	nth	soft/hard	not to be in viewport		expect(page.locator(locator).nth(nth),element is in viewport). not_to_be_in_viewport()
The element is not visible.	locator	nth	soft/hard	not to be visible		expect(page.locator(locator).nth(nth),element is visible).not_to_be_visible()
The element does not contain the specified text.	locator	nth	soft/hard	not to contain text	partial_text	expect(page.locator(locator).nth(nth),element contains text). not_to_contain_text(assert_value)
The element does not have an accessible description.	locator	nth	soft/hard	not to have accessible description	value	expect(page.locator(locator).nth(nth),element has accessible description). not_to_have_accessible_description(assert_value)
The element does not have an accessible name.	locator	nth	soft/hard	not to have accessible name	value	expect(page.locator(locator).nth(nth),element has accessible name). not_to_have_accessible_name(assert_value)
The element does not have the specified attribute.	locator	nth	soft/hard	not to have attribute	"attribute"," expected_value"	expect(page.locator(locator).nth(nth),element has attribute). not_to_have_attribute(assert_value)
The element does not have the specified class.	locator	nth	soft/hard	not to have class	class	expect(page.locator(locator).nth(nth),element has class).not_to_have_class (assert_value)
The locator does not match the specified number of elements.	locator	nth	soft/hard	not to have count	count	expect(page.locator(locator).nth(nth),element has count).not_to_have_count (assert_value)

The page load was not successful or there are errors.	locator	nth	soft/hard	not to be ok		expect(page.locator(locator).nth(nth),element is ok).not_to_be_ok()
The element does not have the specified URL (e.g., for links).			soft/hard	not to have url	url	expect(page,page has url).not_to_have_url(assert_value)
The element does not have the specified title attribute.			soft/hard	not to have title	title	expect(page,page has title).not_to_have_title(assert_value)
The element does not have multiple values (e.g., for select elements).	locator	nth	soft/hard	not to have values	"value1","value2"	expect(page.locator(locator).nth(nth),element has values).not_to_have_values ([assert_value])
The element does not have the specified value.	locator	nth	soft/hard	not to have value	value	expect(page.locator(locator).nth(nth),element has value).not_to_have_value (assert_value)
The element does not contain text.	locator	nth	soft/hard	not to have text	text	expect(page.locator(locator).nth(nth),element has the text).not_to_have_text (assert_value)
The element does not have the specified ARIA role.	locator	nth	soft/hard	not to have role	role	expect(page.locator(locator).nth(nth),element has the role).not_to_have_role (assert_value)
The element does not have the specified JavaScript property.	locator	nth	soft/hard	not to have js property	"property"," expected_value"	expect(page.locator(locator).nth(nth),element has the js properties). not_to_have_js_property(assert_value)
The element does not have the specified ID.	locator	nth	soft/hard	not to have id	id	expect(page.locator(locator).nth(nth),element has id).not_to_have_id (assert_value)
The element does not have the specified CSS property.	locator	nth	soft/hard	not to have css	CSS	expect(page.locator(locator).nth(nth),element has css).not_to_have_css (assert_value)

Loop Structure and Data Entry

		Description								
Description	Locator	nth	Action	Value	Assert	Condition	Assert Value	Stored Value Key	Wait(ms)	This is a simple loop. The loop will iterate through all
start loop	locator							key		the elements in the element list created through the
		given locator. The key is given to store loop data in the reference loop dictionary and data dictionary.								
end loop										,

		Description								
Description	Locator nth Action Value Assert				Condition	Assert Value Stored Value Key		Wait(ms)	Same as the above but the loop may end prematurely	
start loop	locator					•		key		if the end loop assertion fails
				test rows	goes here					
end loop	Locator				soft/hard	condition	assert value			

		Description								
Description	Locator	nth	Action	Value	Assert	Condition	Assert Value	Stored Value Key	Wait(ms)	The loop can continue endlessly until the end loop
start loop	locator							key		assertion fails. The length of element list does not
	test rows goes here									matter in this loop type
end loop continu Locator					soft/hard	condition	assert value			

Execute and Conditional Statement Data Entry Flow

ement l	Description	Execute	Locator	nth	Action	Value	Assert	Condition	Assert Valu	red Value I	Wait(ms)	URL	File Path	Conditonal Key	Conditional Statement dictionary: dict ={}
1		page.get_by_title("Search in").select_option(
2	Enter Search		//input[@id:		fill	Smartph					30000				
3	Click Search		//input[@id:		click						15000				
4		time.sleep(5)													
5	start loop 1		.s-pagination							list	10000				
6					master u										
7	start loop 2:		//span[@cla							product					
8	Goes to the				loop new										
9		page.wait_for_load_state('load')													
10	PAGE URL				get page					url					
11	PRODUCT N		#productTitl		text conte		soft	to be attac		title	30000			title	
12	RATING		#acrCustome		text conte		soft	to be attac		rating	30000				
13		page.wait_for_selector("//span[3]/span[2]/sp					soft								
14	PRICE		//div[1]/div[text conte		soft	to be visib		price	30000				
15	FEATURE		#feature-bul		all inner t		soft	to be visib		feature	1000				
16	TECH		#tech		all inner t		soft	to be visib		tech	1000	ا ا			"iphone" in dictionary ["title"].lower()
17	PRODUCT D		#prodDetails		all inner t		soft	to be visib		product_d	1000				
18	Close the cu				close tab										
19	end loop 2														
20	Click on the		.s-pagination		click						20000				
21	end loop 1:		.s-pagination				soft	not to have	"aria-disab		20000				
		>>>>												>>>>	>>>>
		This block run the exec() in python. I can is code and it becomes the responsibility of to write the code correctly. Although I use primarily for wait sequencies, this might be giving the application extreme flexibility.	·>>>	>>>>>	>>>>	>>>>> soft/hard					action for When in in every respons	unction in on a loop, the run and it ibililty of the	ne data in from dictionary: dict. e key refreshes becomes the ne user to check w to access it.	This can run any conditional statement. Incase of a false value, the test row won't execute. This can access the dictionary: dict using the conditional key. While in a loop, the conditional	

						I					
Description	Locator	nth	Action	Value	Assert	Condition	Assert Value	Stored Value Key	Wait(ms)	URL	File Path
start loop			click		Hard	to be attached					
end loop			fill	value	Soft	to be checked					
end loop continous			press	value	hard	to be disabled					
			double click		soft	to be editable					
			focus			to be empty					
			hover			to be enabled					
			select option	value		to be focused					
			select options	"value1"," value2"		to be hidden					
			text content			to be in viewport		key			
			inner text			to be visible		key			
			get attribute			to contain text	partial_text	key			
			is checked			to have accessible description	value	key			
			is disabled			to have accessible name	value	key			
			is visible			to have attribute	"attribute", "expected_value"	kev			
			is hidden		1	to have class	class	key			
			is enabled		-	to have count	count	key			
			count	value	1	to have css	CSS	key			
			all inner texts		•	to have id	id	key			
			all text contents			to have js property	"property", "expected_value"	key			
			open in new tab			to have role	role			url	
			parent tab]	to have text	text				
			close tab			to have value	value				
			loop new tab			to have values	"value1","value2"				
			open link			to have title	title			url	
			page screenshot			to have url	url				screenshot.png
			element screenshot			to be ok					screenshot.png
			get page url			not to be attached		key			
			master url			not to be checked					
			fresh browser	landonhiah haa	 	not to be disabled					l beaut
			create html	key(which has	the uris i	not to be editable not to be empty					url.html
			store			not to be enabled					
			set Input Files			not to be focused					
			inner HTML			not to be hidden					
			wait for			not to be in viewport					
			wait for element state			not to be visible					
			screenshot			not to contain text	partial_text				
			bounding box			not to have accessible descripti	value				
			and			not to have accessible name	value				
			filter			not to have attribute	"attribute", "expected_value"				
			first			not to have class	class				
			last			not to have count	count				
			nth			not to have css	CSS				
			with text			not to have id	id				
			check			not to have js property	"property", "expected_value"				
					1	not to have role	role				
						not to have text	text				
						not to have value	value				
						not to have values	"value1", "value2"				
						not to have title not to have url	title url				
						not to be ok	ui i				