

## **BROWSER AUTOMATION: WATSAPP USING PYTHON 04**

Hello all in the previous programming screen cast we saw some interesting things you can do with browser automation, this is clearly very interesting topic to do in python. Here in this particular programming screen cast as i said earlier i will be teaching you how can you automate your whatsapp using browser automation. And for that what you need to do here is as and always you need this selenium library as well as you need the web driver here too will be using the web whatsapp to automate your whatsapp so what you can do with whatsapp automation? For example you need to send hundred messages to your friends or to your any other particular group you can do that using python you don't need to write the message again and again, you can just use a for loop and your friends using whatsapp using browser automation, well i will advise you not to do that, i will be giving you glimpse of how can you do that using python. So first of all let me write let me write from selenium, selenium import web driver as we did in the last programming screen cast. After that you have to import two or three things here so i will just write from selenium dot web driver dot support dot ui import web driver wait after that you need to import from selenium dot web driver dot support. Import expected underscore conditions as ec next you need to import from selenium dot web driver dot common dot keys import keys after that again one more thing from selenium dot web driver dot common dot by import by next you need to import the time library so that now we are done with importing the concerned libraries so after that i will just write i need to initialise my driver so i will just write driver here i am using the variable driver in the previous programming screen cast we used browser here i am using driver in order to show you can use any sort of variable name so i will just write is equal to web driver dot chrome and as explained in the previous programming screen cast you need to supply the path to your web driver here i have the web driver in my downloads folder so i will just write the path here. It's in users simran setia downloads and in downloads i have the chrome driver chrome driver hyphen two. Then i need to open the whatsapp window so i will just write driver dot get and you need to supply the web address here so i will just write https colon slash web dot whatsapp dot com i will also write wait is equal to wait web driver wait is equal to web driver wait driver it will wait for some six hundred time units and first of all we will run this and see how the whatsapp appears magically through this and yes your only whatsapp account will appear in it. How can you do that? Let me see, let me run it. I will just write whatsapp using python dot py so it's basically capital w please look at it this, this is capital w not small w so i will run it again it cannot import keys, keys is again capital k i am really sorry for that as you can see the web drover is doing its job it is opening the concerned web browser. So let me open it awesome as you can see you have the whatsapp window right here in your chrome browser you can also see there is a QR code here so i would request all of you to go to your settings in your whatsapp and then click whatsapp web slash desktop. If you click here you will get an option to scan QR code please click on the scan QR code and scan the QR concerned QR code here. I just did that and as you can see you will have my whatsapp window here, as you can see you have my whatsapp window here and what next we need to do here is i need to send some hundred messages to my friend so how can you do that using browser automation? And this is very much possible using selenium so what you need to do here is first of all you need to supply a target you need to supply a target frame whom you want to send these

messages. So i will just write target is equal to first of all you need to write the single quotes and then in double quotes you need to supply the name of your friend so i need to send messages to ravi kiran so i will just write ravi kiran and then you need to write the string the message that you have to send to your friend so i will just write message sent using python, this is the message that you need to send so i will just write the comments here enter your friends name enter your friends name here the message you need to send to your friend you need to send to your friend. So please take care of these two things according to your whatsapp after that what you need to do here is as in the previous programming screen cast we located the download link we also located the search text box using the methods like find element by id or find element by length text. In this same way in your whatsapp window what you need to do, you need to locate the particular message box the particular message of your target friend here i just wrote ravi kiran so here i have the ravi kiran i have ravi kiran message box i need to locate this particular message box using this inspect to so how can you do that? You just double click here and click on the inspect option after that you can see you have the different elements and different elements stock here now i need to locate ravi kiran here how can you do that? As and always we will start with the body here we have the body of this particular web page then click the down arrow and then click again as you can see there is no particular thing for this message box here we have the different message box under the span tack i repeat here we have the different message box in this span tack if you have anything in this span than how can you locate it i will just show you how can you locate the particular message tag or how can you locate a particular element if it is under span tag instead of div tag please note this fact in the previous programming screen cast located elements that were under dif tab but here we have the different elements located in this spanned so how can you do that? This is very much simple in the case of span, so how can you do this using python so i will just write variable here is s underscore arg is equal to inverted commas slash slash span and in span you write contains at title, title is an attribute here what title are we looking for? We are looking for the target so i will just write target i will just close the inverted commas here and i will write target, target plus space inverted commas then round braces then square braces so we are done with it after that you need to write target is equal to wait dot until ex dot presence as you can see you have the presence of element located yes you need to use this presence of element located element underscore located so how you need to locate the element! Using x arg and x path so i will write by dot x path comma x underscore arg that has been supplied here then you need to close the braces when this is done you need to click on that particular target, target dot click this function has been alternate used in the previous programming screen cast target dot click now we have this target is equal to wait dot until ec dot presence of element located. So i will just check it then there should be two braces not one so what does this function do? This function locates for the particular target which we have supplied in x underscore arg and it will keep on locate till it doesn't find it so there are is a function for it that is wait dot until we will be using this function to locate that particular target. Now it will click on that particular target so let us run this programme again and see whether it is clicking on that particular friends message box or not so it will again give me a QR code so i need to scan this QR code again so as my whatsapp appears so as you can see it is not clicking on that particular target it may be we did some mistake here, here we have some mistake target is equal to when it takes two positional arguments but three were given

so let me check where is the problem we need to supply one extra brace here one extra brace here so let me run it again. I need to scan the QR code again in order to check whether it is clicking in the supply target or not here we have the whatsapp as you can see it has clicked on that particular message box ravi kiran's message box as you can see on the screen so it is working the code till here is working what next we need to do here, after that now i have clicked the target and the next thing is to send the messages to those to that target, for sending messages i need to locate the text box for sending the messages i need to locate the text box and in this particular thing how can we locate the text box? You have various methods like finding the element by id or finding the element by link text in this particular thing we will be using find element by class yes how can you find element by class? Again go to your whatsapp window and click on inspect. How can you inspect it? So i will be using that particular method there is it there we have the body then i will be clicking here i need to locate the message box, so how can you locate that? Here i will click here where is the message box, yes i need this particular window after that click the down arrow again no i don't need it no, where is the message box? Yes in footer we have the message box so click on this down arrow after this, no i need to locate this particular message box and then this so as you can see it is under class underscore one p lpp underscore p llp as you can see here div tab index is equal to minus one class is this. So i will be using this particular class to look at the text box so how can you do that? I will name it as input box sorry i will write i will name it as input underscore box is equal to driver dot find element by class by class name underscore name and you need to supply the class name here so it is underscore one plpp underscore one plpp this is how you can locate any particular element using the method find element by class name. So next is i need to send messages so i will just type for i in range fifty let me annoy me friend by sending fifty messages and then i will write input dot not send keys and in that i should write this string and after writing this string i should also press enter so i will write keys dot enter keys dot enter so i think we are done with the code so let me run it and check whether it is working or not. So we will have the whatsapp window here again, let me scan the QR code again now that i have scanned my whatsapp window as appeared as you can see i am able to send fifty messages to my friend ravi Kiran and i am sure he will be very annoyed with me what i am doing here, anyways i will explain it so what cool method i have discovered to annoy him, so in this way you can send various messages many messages to your friend and annoy them i would recommend you not to do that but it's your wish so this is how you can automate your browser and you can make your browser do many things using selenium and by just writing this script so now that we are done with it now i will go through the program again. First of all you need to import all these libraries here and i have already mentioned that web driver is a web driver is the library that you need to import from selenium after that you need to supply the path of your web driver in my case it was download so i just supplied the path of downloads and chrome driver too this is how you can do it. Next you need to supply the web address here as we wanted to automate our whatsapp so we used web dot whatsapp then you supplied the wait parameter if you want your web driver to wait in case in case of slow internet connection the web browser doesn't responds sometimes so this will help in tackling that from tackling that scenario the wait parameter here. After that you need to supply your friends name and then you need to supply the message that you need to send to your friend. Next you need to locate the message box of

your friend in order to locate the message box of your friend you need to locate the span tag here because it comes under the span tag, span tag is basically collections of elements so you need to locate the particular message box using the attribute title. After locating that message box you will supply the wait parameter here again so your program will wait until the presence of that particular element is found or not and then you need to click on that particular message box and then you need to click on that target then you need to locate the input box that is box two for that you will be using diff tag for using the diff tag we have shown the various methods like find element by class name, find element by link text and also find the element by id in this particular thing we use the class name in this particular thing the class name is underscore one elpt it may be different for you guys so i have shown you how can you locate a particular element using the inspect tool you can do that. After that one what number of messaged you want to send you can have a for loop and then you need to send keys to that text box first of all the message you need to send and one thing more you need to press enter after you write the message so i just write keys dot enter i just wrote keys dot enter that's how you can press enter in browser automation so as you can see me did this and my friend is actually annoyed with this because i send this fifty messages to him so as you can see we send this fifty messages by using browser automation. I hope that this programming screen cast was clear to all of you, if you have any problem please post on discussion form will be happy to help you thank you.