**INTERNSHIP 2020**

RPA AUTOMATION- **G1ANT**

(Websites, Android applications, Desktop apps etc.)

**PROJECT:-**DIGITAL MARKETING

**INPUTS:-** Page Creation,

Post, Follow, Tweet, Payment, Chatbot

**WEBSITE**

[www.facebook.com](http://www.facebook.com)

[www.twitter.com](http://www.twitter.com)

PROJECT CONTRIBUTORS

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**APPENDIX**

1. Introduction…….

2. Project……..

3. Program…….

4. Commands Used…….

**1. INTRODUCTION**

In this project we developed addon using selenium commands, api, enums. This was very good experience, while gaining some knowledge. This project developed by the two contributors NayanSarode&ManeeshPorwal. In this coding we developed commands and made automation testing. This addon is made for different social media platforms like facebook,twitter,and Instagram for doing digital marketing of G1ANT Platform.The automation does different actions like creating page, sending message, creating post or tweet, Giving payment options, Following any account. So user is able to automate his business on different web platforms on just one click. The user has to give his input in an Excel file which gets added to his web platform. The code for making this addon is developed in the software called ‘Visual Basic 2019’, & then tested using bot called ‘G1ant Studio’. In the g1ant studio we can run our project by giving some commands to automate it.

During project creation we faced some difficulties like, finding Proper xpath. **XPath** (XML Path Language) is a query language for selecting nodes from an XML document. In addition, **XPath** may be used to compute values (e.g., strings, numbers, or Boolean values) from the content of an XML document. Also the arguments is necessary parameters to cover the program output**,** To set command-line **arguments in Visual Studio**, right click on the project name, then go to Properties. In the Properties Pane, go to "Debugging", and in this pane is a line for "Command-line **arguments**." Add the values you would like to use on this line. They will be passed to the program via the ‘arg’ array.

**2. PROJECT**

**G1ANT STUDIO**

G1ANT.Robot was created to accelerate automations so you can scale up fast and enhance your company’s growth rapidly by not having to grow organically. Instead, since G1ANT.Robot can emulate human tasks performed on a computer, by automating time-consuming, repetitive and manual processes, you will be able to free up resources to spend more time with customers or perform more creative tasks, therefore enhancing effectiveness and productivity.

**VISUAL STUDIO**

**Microsoft Visual Studio** is an [integrated development environment](https://en.wikipedia.org/wiki/Integrated_development_environment) (IDE) from [Microsoft](https://en.wikipedia.org/wiki/Microsoft). It is used to develop [computer programs](https://en.wikipedia.org/wiki/Computer_program), as well as [websites](https://en.wikipedia.org/wiki/Web_site), [web apps](https://en.wikipedia.org/wiki/Web_app), [web services](https://en.wikipedia.org/wiki/Web_service) and [mobile apps](https://en.wikipedia.org/wiki/Mobile_app). Visual Studio uses Microsoft software development platforms such as [Windows API](https://en.wikipedia.org/wiki/Windows_API), [Windows Forms](https://en.wikipedia.org/wiki/Windows_Forms), [WindowsPresentation Foundation](https://en.wikipedia.org/wiki/Windows_Presentation_Foundation), [Windows Store](https://en.wikipedia.org/wiki/Windows_Store) and [Microsoft Silverlight](https://en.wikipedia.org/wiki/Microsoft_Silverlight). It can produce both [native code](https://en.wikipedia.org/wiki/Machine_code) and [managed code](https://en.wikipedia.org/wiki/Managed_code).

**3(i). Main Program of G1ANT Studio(Facebook):-**

addon facebook version 1.0.0.0

addon xlsx version 4.103.0.0

addon core version 4.106.0.0

addon language version 4.105.0.0

-Opening Excel File

xlsx.open path ♥environment⟦USERPROFILE⟧\Documents\RPA.xlsx

-Opening Facebook

facebook.open

-Facebook Login

facebook.login phone ♥credential⟦Facebook:mobile⟧ pword ♥credential⟦Facebook:pass⟧ search

delay 12

-Opening G1ANT Page

facebook.pageg1ant search

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delay 10

xlsx.getvalue row 20 colindex 1 result ♥name

delay 2

-Sending Request

facebook.sendRequest customer ♥name search

delay 6

mouse.click ⟦point⟧1048⫽583 type ‴press‴

delay 5

mouse.click ⟦point⟧974⫽966 type ‴press‴

delay 10

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delay 2

xlsx.getvalue row 25 colindex 1 result ♥post

facebook.click search ‴/html/body/div[1]/div/div[1]/div[1]/div[3]/div/div/div[1]/div[1]/div[2]/div/div/div[4]/div[2]/div/div[2]/div[1]/div/div/div[1]/div[2]/div[1]/div/span‴ by xpath

delay 9

keyboard text ‴♥post‴

delay 3

facebook.click search ‴/html/body/div[1]/div/div[1]/div[1]/div[4]/div/div/div[1]/div/div[2]/div/div/div/form/div/div[1]/div/div[2]/div[3]/div[4]/div‴ by xpath

delay 10

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-Opening Message Page

facebook.message search

delay 7

-Reading Value

xlsx.getvalue row 3 colindex 1 result ♥q1

xlsx.getvalue row 4 colindex 1 result ♥q2

xlsx.getvalue row 5 colindex 1 result ♥q3

xlsx.getvalue row 6 colindex 1 result ♥q4

xlsx.close

-asking Question

keyboard ♥q1

keyboard ⋘ENTER⋙

delay 5

keyboard ♥q2

keyboard ⋘ENTER⋙

delay 5

keyboard ♥q3

keyboard ⋘ENTER⋙

delay 5

keyboard ♥q4

keyboard ⋘ENTER⋙

delay 5

facebook.click search ‴/html/body/div[1]/div/div[1]/div[1]/div[3]/div/div/div[1]/div[1]/div[2]/div/div[2]/a/div[1]/div/span‴ by xpath

delay 2

mouse.click ⟦point⟧1162⫽471 type ‴press‴

delay 10

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-Opening Advertisement page

mouse.click ⟦point⟧834⫽428 type ‴press‴

delay 8

mouse.click ⟦point⟧1071⫽479 type ‴press‴

delay 8

facebook.click search ‴/html/body/div[1]/div/div[1]/div[1]/div[4]/div/div[2]/div[1]/div/div[3]/div[2]/div/div/div[3]/div/div[4]/div/div/div/div/div/div[2]/div/div[1]/div/span‴ by xpath

delay 13

mouse.click ⟦point⟧386⫽917 type ‴press‴

delay 3

mouse.click ⟦point⟧893⫽891 type ‴press‴

delay 3

**Explanation of Code :**

This given Code automate Facebook for Digital Marketing in G1ANT Studio. First I am opening an excel file named “RPA.xlsx”. Then open facebook in chrome browser, login in facebook using given credential, wait for 12 second. Then open a page on facebook named “G1ANT Robotics Process Automation”, wait for 10 second.

Then reads 20th row and 1st column of excel sheet and save it in name variable. After that wait for 2 second. Then it sends a follow request using “facebook.sendRequest” command for this page to a specific person which’s name is stored in name variable. Now clicks on some specific position with the help of mouse, and wait for 10 second.

Again wait for 2 second, Then reads 25th row and 1st column of excel sheet and save it in post variable. And clicks on create post on facebook and type something with the help of keyboard , wait for 3 second. It clicks on post button on Facebook, and wait for 10 second.

Now using facebook.message command it reach on messenger to send message, wait for 7 second. Then it reads some value from a specific excel sheet and store it in variable q1, q2, q3, q4 and closes the excel sheet. It asks some some question on messenger which is stored in variable q1, q2, q3, q4. Then G1ANT Robot return back to “G1ANT Robotics Process Automation” page.

Then it opens a advertisement page on facebook. Ten it click on promate button. At last it clicks on paytm for payment of Facebook ads.

**4(i). Commands Used in Program:-**

* **facebook.open :-** This command open facebook login page in chrome(default) browser.
* **facebook.login :-** This Command login on facebook page using giving credential.
* **facebook.pageg1ant :-** This Command opens “G1ANT Robotics Process Automation” page on facebook.
* **facebook.sendrequest :-** This Command click on search for friend and then type the name of friend to which you want to send the friend request.
* **facebook.click :-** This Command Click on specific element on active window.
* **facebook.message :-** This command open messenger for asking the page related question.

**3(ii). Main Program of G1ANT Studio(Twitter):-**

**addonxlsx version 4.104.0.0**

**addon twitter version 1.0.0.0**

**addon core version 4.107.0.0**

**addon language version 4.106.1.0**

**-Open xlsx file to get input**

**xlsx.open path ♥environment⟦USERPROFILE⟧\Desktop\Practicle.xlsx**

**- Opening Twitter in Chrome**

**twitter.open chrome**

**- Giving Login Credential**

**twitter.login email ‴NayanSarode\_23‴ pword♥credential⟦twitter:password⟧ search**

**delay 5**

**- Getting value from excel file previously stored**

**xlsx.getvalue row ‴1‴ colname ‴A‴ result ♥search**

**- Searching account to follow**

**twitter.searchsearchvalue♥search search**

**delay 5**

**- Sending Follow Request**

**twitter.follow search**

**delay 5**

**- Closing Browser tab**

**twitter.close**

**delay 5**

**- Open Twitter in Chrome Browser**

**twitter.open chrome**

**delay 5**

**- Giving Login Credential**

**twitter.login email ‴NayanSarode\_23‴ pword ‴Nayan@23‴ search**

**delay 5**

**- Getting value from excel file to get input**

**xlsx.getvalue row ‴2‴ colname ‴A‴ result ♥message**

**- Making a Tweet**

**twitter.tweetmessagevalue♥message search**

**Explanation of Code :**

In this code we have automated twitter platform. In which first excel file is opened by giving it location using ‘xlsx.open’ command. Then twitter is opened in chrome browser using ‘twitter.open chrome’ command. Then login credential is given to login into our account using ‘twitter.login’ command. Then account which we want to follow is searched by taking input from excel file and sending follow request to it using ‘twitter.follow’ command.

Then twitter is closed using ‘twitter.close’ command and open again to tweet any message or post about business which we want to promote using ‘ twitter.tweet’ command.Input for the post is taken from excel file.

**4(ii). Commands Used in Program:-**

* **twitter.open:** It is used to open twitter in given browser.
* **twitter.login:** It is used to login our account of twitter using login credential.
* **twitter.search:** It is used to search any account on twitter.
* **twitter.follow:** It is used to follow any account on twitter.
* **twitter.close:** It is used to close browser window.
* **twitter.tweet:** It is used to tweet any message or post on twitter.