#### **GIANT RPA INTERNSHIP 2020**

PROJECT -> DIGITAL MARKETING

WEBSITES USED -> <u>WWW.LINKEDIN.COM</u>,

<u>FACEBOOK.COM,WWW.TWITTER.COM</u>,

<u>WWW.INSTAGRAM.COM</u>

SOFTWARE -> VISUAL STUDIO, G1ANT

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#### DIGITAL MARKETING

### **Description**

The process of the code is to simulate a real-time process automation strategy in supporting Digital Marketing in Social Media platforms. To help carry out the process better, an eclectic range of social media platforms are selected such as LinkedIn, Facebook, WhatsApp, Twitter, and have also given preference for the user to select his platform of interest. The method of recording responses is done through a google form with defined questionnaire pertinent to the platforms to align data ensuring the right content is posted.

### Google sheet Link:

https://docs.google.com/forms/d/e/1FAIpQLSdS6o8mqikXUX1Q7MjLVv8uzP2h-utPtzJzXISuRTt7oJaffA/viewform?usp=sf\_link

Spreadsheet ID: 13i1DHjxRHyENDTLS-B02-

X8E3JQNXxpRvwRkoW7HECU

Argument	Type	Requir ed	Default Value	Description
type	Text	Yes		Enter the default browser for opening the webpage [Chrome, Firefox]

email	Text	Yes		Enter the operator's email here
pword	Text	Yes		Enter the operator's password here
to	Text	Yes		Enter the email of the user to whom the message is to be sent
subject	Text	Yes		Enter the title of the message
message	Text	Yes		Draft your email
Id	Text	Yes		Opens up the required google spreadsheet with the required id for performing operations
result	Text	No	♥result	Name of a variable where the command's result will be stored
if	Bool	No	true	Executes the command if the expected condition is true
timeout	Timespa n	No	•	Specifies time in milliseconds for G1ANT.Robot to

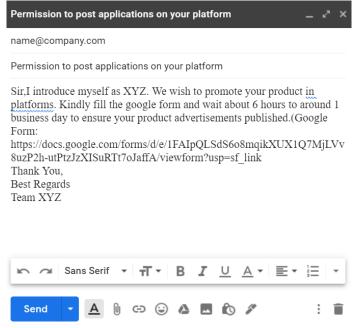
			timeoutcomm and	wait for the command to be executed
errorcall	Proced ure	No		Name of the procedure to be called if an exception is called or timeout has occured
errorjump	label	No		Name of the label to jump to when the command throws an exception or when a given timeout ex pires
errormess age	Text	No		Message to be shown if an error occurs or timeout exceeds
errorresult	Variable	No		Name of a variable that will store the returned exception. The variable will be of error structure

search	Text	Yes	Indicate the program to search with the necessity arguments (xpath, id, class, etc)
by	Text	Yes	Gives the program a mode to look for the id for the desired search option

## **Standard Operating Procedure**

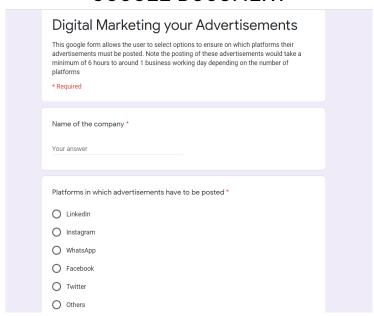
The below mentioned steps indicate the standard protocol for which the program runs:

 The operator first sends a mail to the company/startup/organization/an external agency requesting for which platforms are to be posted. The responses are collected on a google form which is linked with an inbuilt googledocs spreadsheet. This spreadsheet will be the source of parsing in the values to the robot.



 Using the googlesheet.find option, the robot detects the platforms for which the advertisements are meant to be posted. For multiple platforms, the user has to click for more than one option to ensure accurate reading of all the platforms

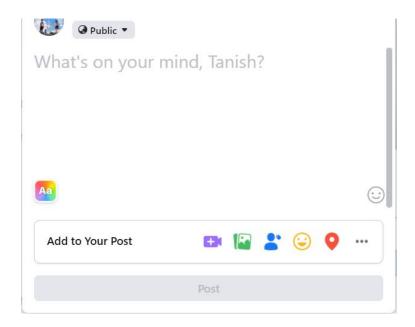
#### **GOOGLE DOCUMENT**



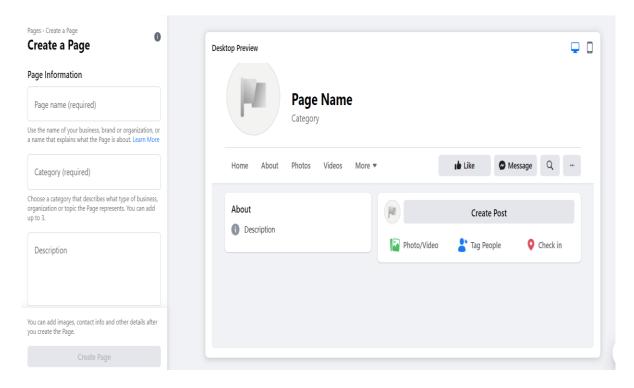
- For the detected platform, the robot starts with performing all the pre-requisite operations starting from posting to adding connections. In an event of adding pictures, the user must provide URL of the ID which will be parsed in with the robot as a picture URL for posting the same on any of the social media website.
- On account of the ID, based on the row and column of the spreadsheet, the robot can detect the content and will post accordingly to minimize errors.
- For generating advertisements, Facebook business ID is being used for which any amount transaction (if any) is done through the mode of payment: PayPal or PayTM. Note: For any unsuccessful transaction, we have ensured the user gets intimated the same, and the necessary steps would be done to ensure a smooth process.
- The cycle then periodically repeats itself to traverse through the google form for the entire day. In order to reduce complexity, once the process is completed, the google spreadsheet will close to erase previous data and creates a new spreadsheet to begin a new process.
- In case of a failure in the internet connection, the delay period mentioned would take care of any unnecessary interruptions during the execution process ensuring simplicity.

PICTURES TO DEMONSTRATE THE WORKING

# FACEBOOK POST

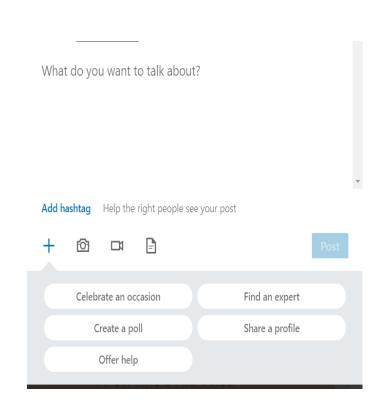


#### **PAGE**



#### **ADVERTISING** Q Search Facebook ŵ **• 2 Manage Page Notifications** RPA New 1 Home Share updates about RPA by creating a new post, photo or video. Inbox 2 days ago Resources & Tools Earlier Notifications Your ad is now in review. We'll let you know when it's approved. 3 days ago ✓ Insights Tanish Fullbuster added Tanish Fullbuster as an admin to RPA. **RPA** Create @Username · Robotics Company Publishing Tools Ad Center + Add a Button Page Quality **₹** Promo Home Events Reviews More ▼ ... Fdit Dage Info Page Settings https://www.facebook.com/RPA-110038354156656/quality/ Invite Friends to Like Your Page G1ANT Documen....docx ^ G1ANT.Addon.GM....zip ^ Type here to search

# LINKEDIN POST



INSTAGRAM POST





# CODE

The code for promoting the product is given below:addon selenium version 4.104.0.0
addon googledocs version 4.103.0.0
addon gmail version 1.0.0.0
addon core version 4.107.0.0
addon language version 4.106.1.0

gmail.open type chrome search 💙 login = 💙 credential [[gmail:login]] 🤎 password = 🗡 credential [[gmail:password]] delay 10 gmail.login email Vlogin pword password search delay 20 gmail.sendmails to "name@company.com" subject "Permission to post applications on your platform" message " Sir, I introduce myself as XYZ. We wish to promote your product in platforms. Kindly fill the google form and wait about 6 hours to around 1 business day to ensure your product advertisements published. (Google Form: https://docs.google.com/forms/d/e/1FAIpQLSdS6o8mgikXUX1Q 7MiLVv8uzP2hutPtzJzXISuRTt7oJaffA/viewform?usp=sf\_link<<<enter>>>>Thank You, << <pre>enter
Best Regards
enter
Team XYZ
search googlesheet.open 13i1DHjxRHyENDTLS-B02-X8E3JQNXxpRvwRkoW7HECU result id googlesheet.getvalue C5:C8 result Values dialog Values **i**=1 for **i** from 1 to 3 if ♥values | ♥i | == "F"  $\bigvee$ i =  $\bigvee$ i + 9

```
login = credential [facebook:login]
  pword = credential [facebook:password]
  --post
  selenium.open chrome url
https://www.facebook.com/?stype=lo&jlou=Afdgr0DRe0cYT8Mp
pLgH4vFkKyFM5A6ZWa7Z7Mco-CslDTHYzmESJZQdHWi7Q--
_6h-Og2uRCoQxkux1pdSTH2b-
cmVKT4Aq1tieQGSpK26hJw&smuh=4398&lh=Ac9mPzSsD86Dz
e6x
  delay 5
  selenium.type Vogin search //*[@id="email"] by xpath
  delay 5
  selenium.type pword search //*[@id="pass"] by xpath
  delay 5
  selenium.click search //*[@id="u_0_b"] by xpath
  delay 15
  selenium.click search
//*[@id="mount_0_0"]/div/div[1]/div[1]/div[2]/div[4]/div[1]/div[3]/
span/div/i by xpath
  delay 5
  selenium.click search
//*[@id="mount_0_0"]/div/div[1]/div[1]/div[2]/div[4]/div[2]/div/div
/div[1]/div[1]/div/div/div/div/div/div[2]/div[1]/div[1]/di
v[1]/div by xpath
  delay 10
```

```
keyboard "advertising the product for post...."
  selenium.click search
//*[@id="facebook"]/body/div[11]/div[1]/div/div[2]/div/div/div/for
m/div/div[1]/div/div[2]/div[3]/div[2]/div by xpath
  --page
  delay 15
  selenium.click search
//*[@id="mount_0_0"]/div/div[1]/div[1]/div[2]/div[4]/div[1]/div[3]/
span/div/i by xpath
  delay 15
  selenium.click search
//*[@id="mount_0_0"]/div/div[1]/div[1]/div[2]/div[4]/div[2]/div/div
/div[1]/div[1]/div/div/div/div/div/div[2]/div[4]/a/div[1]/div[
1]/div/i by xpath
  delay 5
  selenium.click search
//*[@id="mount_0_0"]/div/div[1]/div[1]/div[3]/div/div/div[1]/div[1]/
div[1]/div/div[2]/div[1]/div[2]/div/div/div[1]/div/div[2]/label/div/di
v by xpath
  keyboard "Page name"
  delay 5
  selenium.click search
//*[@id="mount_0_0"]/div/div[1]/div[1]/div[3]/div/div/div[1]/div[1]/
div[1]/div/div[2]/div[1]/div[2]/div/div[2]/div/div[1]/label/div/di
v/div/div/div by xpath
  keyboard "Category << ENTER>>>"
```

```
delay 5
  selenium.click search
//*[@id="mount_0_0"]/div/div[1]/div[1]/div[3]/div/div/div[1]/div[1]/
div[1]/div/div[2]/div[1]/div[2]/div/div/div[3]/div/div/label/div/div
by xpath
  keyboard "Description"
  delay 5
  selenium.click search
//*[@id="mount_0_0"]/div/div[1]/div[1]/div[3]/div/div/div[1]/div[1]/
div[1]/div/div[3]/div[2]/div/div/div[2] by xpath
  --fb advertising
  selenium.newtab chrome url
https://www.facebook.com/business/ads timeout 10000
  delay 10
  selenium.click search
//*[@id="u_0_g9"]/div[3]/div[1]/div[2]/div by xpath timeout 10000
  delay 20
  selenium.click search
//*[@id="mount_0_0"]/div/div[1]/div[1]/div[3]/div/div/div[1]/div[1]/
div[2]/div/div/div/div/div[2]/div[1]/div/div/a/div[1]/div[1]/div by
xpath timeout 10000
  delay 10
  selenium.click search
//*[@id="mount_0_0"]/div/div[1]/div[4]/div/div/div[1]/div/di
v[3]/div[2]/div/div[3]/div/div[3]/div/div[1]/span[1]/div/div/div/
div/div/div[2]/div[1]/div/div/label/div/div by xpath timeout 10000
```

```
keyboard "«enter» Hi"
  -run ad continuously
  -selenium.click search
//*[@id="mount_0_0"]/div/div[1]/div[4]/div/div/div/1]/div/di
v[3]/div[2]/div/div/div[3]/div/div[3]/div/div[1]/div[1]/div/div/span[
1]/div/div/div[2]/div/div[1]/div/div[2]/div/div/i by xpath
timeout 10000
  -run for n days continuously
  -selenium.click search //*[@id="jsc_c_48"] by xpath timeout
10000
  -keyboard "<<br/>kspace 2>>>n"
  selenium.click search
//*[@id="mount_0_0"]/div/div[1]/div[1]/div[4]/div/div/div[1]/div/di
v[3]/div[2]/div/div/div[3]/div/div[4]/div/div/div/div/div/div[2]/div
by xpath timeout 10000
  delay 5
  -GST
  selenium.click search
//*[@id="mount_0_0"]/div/div[1]/div[1]/div[4]/div/div/div[2]/div/di
v/div[1]/div/div[2]/div/div/div/div[1]/div[3]/div/div[1]/div[2]/di
v[1]/div/div/div/div/label/div/div[1] by xpath timeout 10000
  keyboard "GST"
  delay 5
  -PAN
  selenium.click search
//*[@id="mount_0_0"]/div/div[1]/div[1]/div[4]/div/div/div[2]/div/di
```

```
v/div[1]/div/div[2]/div/div/div/div[1]/div[3]/div/div[1]/div[2]/di
v[2]/div/div/div/div/label/div by xpath timeout 10000
  keyboard "PAN"
  delay 5
  -Business name
  selenium.click search
//*[@id="mount_0_0"]/div/div[1]/div[1]/div[4]/div/div/div[2]/div/di
v/div[1]/div/div[2]/div/div/div/div[1]/div[3]/div/div[2]/div[2]/di
v/div/div/div/div/label/div/div[1] by xpath timeout 10000
  keyboard "Business name"
  delay 5
  -Street address 1
  selenium.click search
//*[@id="mount_0_0"]/div/div[1]/div[4]/div/div/div[2]/div/di
v/div[1]/div/div[2]/div/div/div/div[1]/div[3]/div/div[3]/div[2]/di
v[1]/div/div/div/div/label/div/div[1] by xpath timeout 10000
  keyboard "address1"
  delay 5
-Street address 2
  selenium.click search
//*[@id="mount_0_0"]/div/div[1]/div[1]/div[4]/div/div/div[2]/div/di
v/div[1]/div/div[2]/div/div/div/div[1]/div[3]/div/div[2]/di
v[2]/div/div/div/div/label/div/div by xpath timeout 10000
  keyboard "address2"
  delay 5
```

```
-City
  selenium.click search
//*[@id="mount_0_0"]/div/div[1]/div[1]/div[4]/div/div/div[2]/div/di
v/div[1]/div/div[2]/div/div/div/div[1]/div[3]/div/div[3]/div[2]/di
v[3]/div/div/div/div/label/div/div[1] by xpath timeout 10000
  keyboard "city"
  delay 5
  -State
  selenium.click search
//*[@id="mount_0_0"]/div/div[1]/div[1]/div[4]/div/div/div[2]/div/di
v/div[1]/div/div[2]/div/div/div/div[1]/div[3]/div/div[3]/div[2]/di
v[4]/div/div/div/div/div/label/div/div[1] by xpath timeout
10000
  keyboard "state"
  delay 5
  -Pin code
  selenium.click search
//*[@id="mount_0_0"]/div/div[1]/div[1]/div[4]/div/div/div[2]/div/di
v/div[1]/div/div[2]/div/div/div/div[1]/div[3]/div/div[3]/div[2]/di
v[5]/div/div/div/div/label/div/div[1] by xpath timeout 10000
  keyboard "pincode"
  delay 5
  -paytm
  selenium.click search
//*[@id="facebook"]/body/div[5]/div[2]/div/div/div/div/div/div/di
v[2]/div/div[4] by xpath timeout 10000
```

```
delay 5
  selenium.click search
//*[@id="facebook"]/body/div[5]/div[2]/div/div/div/div/div/div/di
v[3]/span[2]/div/div[2]/button by xpath timeout 10000
  delay 5
  selenium.click search
//*[@id="AdsPaymentDisclaimerAcceptButton"] by xpath
timeout 10000
  delay 5
  selenium.click search //*[@id="u_a_2"] by xpath timeout
10000
  delay 5
  selenium.click search
//*[@id="app"]/main/div[2]/div[3]/section/div/span[1]/label/inpu
t by xpath timeout 10000
  delay 5
  selenium.click search //*[@id="inp"] by xpath timeout 10000
  keyboard "number << enter>>>"
  selenium.click search
//*[@id="facebook"]/body/div[5]/div[2]/div/div/div/div/div/div/di
v[2]/div/div[4] by xpath timeout 10000
 else if ♥values [♥i] == "L"
  \bigvee_{i} = \bigvee_{j} i + 8
  login = credential [linkedin:login]
```

```
pword = credential [linkedin:password]
  selenium.open type chrome url
https://www.linkedin.com/login?fromSignIn=true&trk=guest_ho
mepage-basic_nav-header-signin
  delay 2
  selenium.type text Vlogin search //*[@id="username"] by
xpath
  delay 2
  selenium.type text pword search //*[@id="password"] by
xpath
  delay 2
  selenium.click search
//*[@id="app__container"]/main/div[2]/form/div[3]/button by
xpath
  delay 20
  selenium.click search //*[@id="ember45"]/div/div[1]/button
by xpath
  delay 2
  keyboard "advertising the product...."
  delay 2
  selenium.click search //*[@id="ember547"] by xpath
 else if ♥values[♥i]=="I"
  \bigveei = \bigveei + 9
```

-need to have a facebook account to open instagram and which is already connected

appium.open apppackage com.instagram.android appactivity com.instagram.mainactivity.MainActivity

delay 10

appium.click search

/hierarchy/android.widget.FrameLayout/android.widget.Linear Layout/android.widget.FrameLayout/android.widget.LinearLayout/android.widget.FrameLayout/android.widget.FrameLayout/android.widget.FrameLayout/android.widget.FrameLayout/android.widget.LinearLayout/android.widget.LinearLayout/android.widget.LinearLayout/android.widget.TextSwitcher by xpath

delay 25

appium.click search //android.widget.lmageView[@content-desc="Camera"] by xpath

delay 8

appium.click search

/hierarchy/android.widget.FrameLayout/android.widget.FrameLayout/android.widget.ScrollView/android.widget.LinearLayout/android.widget.LinearLayout/android.widget.LinearLayout/android.widget.Button[1] by xpath

delay 5

appium.click search

/hierarchy/android.widget.FrameLayout/android.widget.FrameLayout/android.widget.ScrollV

iew/android.widget.LinearLayout/android.widget.LinearLayout/android.widget.LinearLayout[2]/android.widget.Button[1] by xpath

delay 5

appium.click search

/hierarchy/android.widget.FrameLayout/android.widget.FrameLayout/android.widget.ScrollView/android.widget.LinearLayout/android.widget.LinearLayout/android.widget.LinearLayout/android.widget.Button[1] by xpath

delay 5

appium.click search

/hierarchy/android.widget.FrameLayout/android.widget.FrameLayout/android.widget.ScrollView/android.widget.LinearLayout/android.widget.LinearLayout/android.widget.LinearLayout/android.widget.Button[1] by xpath

delay 8

appium.click search "//android.view.View[@content-desc="Create mode button"]" by xpath

delay 5

appium.click search

/hierarchy/android.widget.FrameLayout/android.widget.Linear Layout/android.widget.FrameLayout/android.widget.LinearLayout/android.widget.FrameLayout/android.widget.FrameLayout/android.widget.FrameLayout/android.widget.FrameLayout/android.widget.FrameLayout/android.widget.FrameLayout/android.widget.FrameLayout[3]/android.widget.FrameLa

```
roid.widget.FrameLayout/android.widget.FrameLayout/android
.widget.FrameLayout/android.widget.FrameLayout[2] by xpath
  delay 5
  --advt
  keyboard "advt about product..."
  appium.button back
  delay 2
  appium.click search "//android.widget.lmageView[@content-
desc="Save to Device"]" by xpath
  delay 15
  appium.button back
  delay 5
  appium.click search
  /hierarchy/android.widget.FrameLayout/android.widget.Fra
meLayout/android.widget.FrameLayout/android.widget.Frame
Layout/android.widget.LinearLayout/android.widget.FrameLay
out[1]/android.widget.TextView by xpath
  delay 5
  appium.button back
  delay 5
  appium.click search
//android.widget.FrameLayout[@content-desc="Camera"] by
xpath
  delay 5
```

```
appium.click search //android.widget.TextView[@content-
  desc="Next"] by xpath
    delay 5
    appium.click search //android.widget.TextView[@content-
  desc="Next"] by xpath
    delay 5
    appium.click search
  /hierarchy/android.widget.FrameLayout/android.widget.Linear
  Layout/android.widget.FrameLayout/android.widget.LinearLay
  out/android.widget.FrameLayout/android.widget.FrameLayout/
  android.widget.FrameLayout[1]/android.view.ViewGroup/androi
  d.widget.ScrollView/android.widget.LinearLayout/android.widg
  et.LinearLayout[1]/android.widget.FrameLayout[1]/android.widg
  et.LinearLayout/android.widget.EditText by xpath
    delay 5
    -caption
    keyboard "caption"
    delay 5
    appium.click search //android.widget.TextView[@content-
  desc="Next"] by xpath
    else
    break
   end
  end
NOTES:
```

The above code will create a post on the platform specified by the customer in the google docs.  If Facebook platform is chosen, then the customer need to give further details for creating a page and advertising the product given as a paragraph option in Google forms.
product given as a paragraph option in obogic forms.