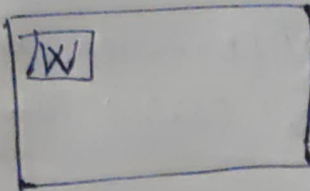# Week - 6

Designing a process for scraping data using screen scraping and data scraping.

Steps

- Open UiPath Studio and sign in.
- Create a process.
- Search "use Application/Browser" in activities search bar and download that package.
- Go to Chrome → go to extensions → manage extensions and give access to UiPath.
- Now, in new tab, go search wikipedia and go to its website.
- Now, in UiPath, select a browser in the use Application/Browser by clicking on wikipedia page.
- In DO, add "Type Into" and write "Robotic process automation" in Type this section.
- Go to wikipedia and type Robotic process automation and come back to UiPath and "indicate target on screen" and select the Wikipedia search bar.
- Now add "click" and indicate target as the search 'Q' symbol on wiki page.
- Add "Get Text" and go to wiki page and search that RPA.
- Now indicate text as some para in wiki page and the create var by clicking "ctrl+k" or just type create var in 'save to' column. Create a var "screen".
- Now add write Text File and type "screen" in Text section and "csrc-doc" in write to filename section

| W | Browser | ⁝ ↗ |

| W |

Browser URL

| {} | "https://www.wikipedia.org" | ⊕ |

| Ls DO | ⁝ ↗ |

Type Into 'RPA'

[ ]

type this

| {} | "RPA" | ⊕ |

Empty field before typing

[_____ ✓]

click before typing

[single ✓]

↓

Click Search

[_____]

Click type

[single]

Mouse button

[Left ✓]

↓

Get text

[_____]

Save to

| {} | screen | ⊕ |

↓

Write text file

Text

| {} | Screen | ⊕ |

Write to filename

| {} | "t ' | ⊕ |

⁝ ↗

Data Scrapping

→ Open uipath

→ Drag & Drop use Appln/Browser, select
   'indicate to automate' (select any website)

→ Drag extract datatable
                ↓
        extract datatable → extract text (confirm)

            (choose column name in table
                  extran & same)

→ To create var → choose create var
                ↓
        name as set var & extlab

→ Drag write range workbook
     > properties → Aod header

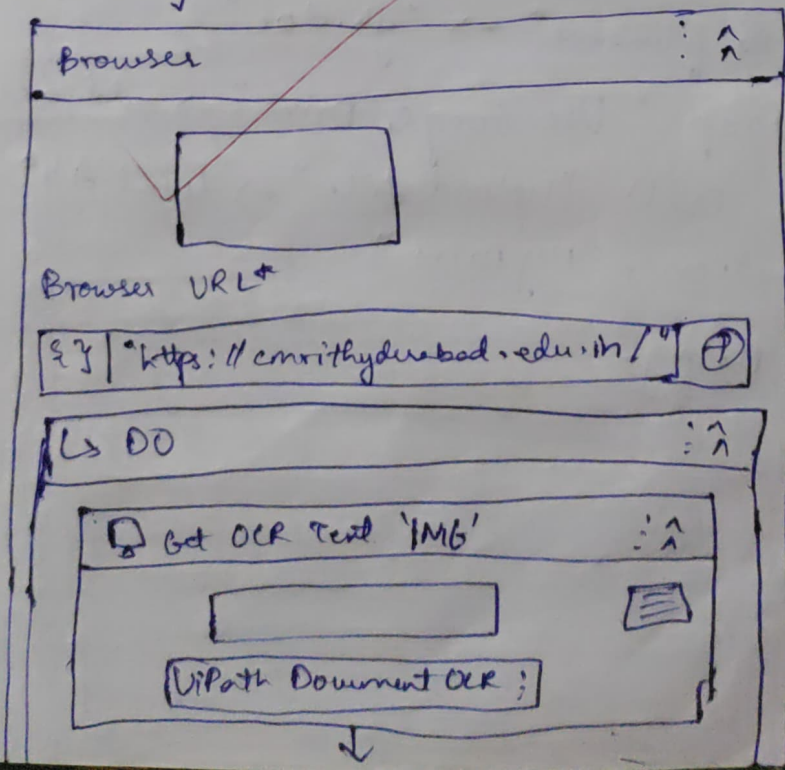→ Debug the file.

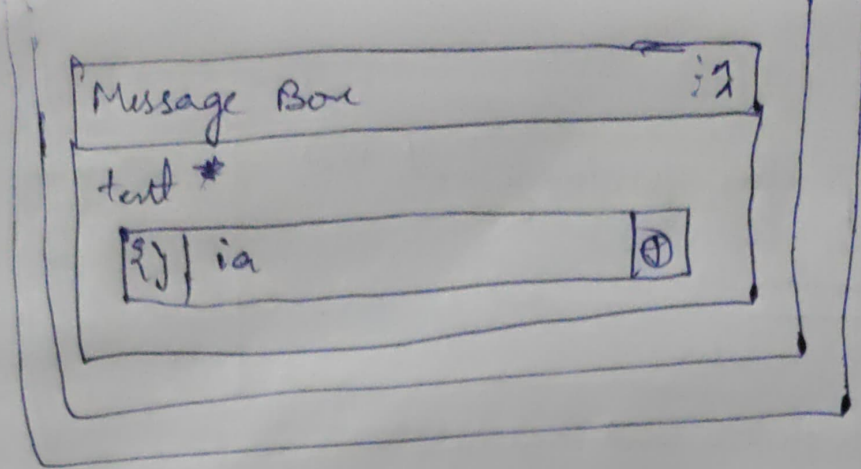# Week-8

Create a process for image and text automation

Image Automation

Steps

- Open UiPath studio and sign in
- Search "use Application/Browser" and drag & drop it.
- Go to chrome, search for cmrit hyd website and open it.
- In UiPath, "indicate target on screen" → cmrit website.
- In DO, drag & drop "get OCR text" → select element on screen → select CMRIT logo.
- Select "UiPath Document OCR" and in properties add API key by going to your UiPath account in browser.
  ⊕ → admin → consumables
- Select Get OCR text and ~~drag & drop~~ create a variable in the output → text section "ia".
- Drag & Drop Message Box and use var "ia".
- Save & Debug.

O/P

Message Box

text *

[?] ia

Text Automation

- Go to new sequence, drag & drop "use app URL/Browser"
- Go to Chrome, search for wikipedia.org and go to the website.
- Select "indicate on screen target" and select wikipedia browser
- In DO, drag & drop "Type Into" → select search bar in wiki → Type this "India".
- Drag & Drop "click" → select Q in wiki
- Drag & Drop "Get Text" → select some text in wiki.
  Save to ⊕ → create variable "ta"
- Drag & Drop "Write Text File" → Text* = ta → Write to: filename* → "gh.doc"
- Drag & Drop "Use Google Drive" → add account
- In DO, D&D "Upload file" → local file* = "gh.doc" → Destination = "My Drive"
- Save & Debug.

Browser

Browser URL *

{ { } | "https://www.wikipedia.org/" ∠7 ⊕

DO

Type Into 'INPUT searchInput'

Type this

{ { } | "india" ∠7 ⊕

Empty field before typing | Click before typing
Single time | Single ∨

↓

Click 'Search'

Click Type | Mouse Button
Single | Left ∨

↓

Get Text

Save to
{ { } | ta ⊕

↕

Write Text File

Text *

{ { } | ta ∠7 ⊕

Write to filename

{ { } | gh.doc " ∠7 ⊕

↓

△ Use Google Drive

△ Account *

△ [21Re... ~ @cmrithyderabad.edu.in]

Week -9

Design a process for automating Data tables in Excel

Steps

- Open UiPath, d&d "Read CSV".
- Copy path of climate-csv from file explorer and paste in "Read from file"
- Create var in "output to" called "csvdata".
- D&D "write CSV" and put "csvdata" in write from
- Write to what file ➝ "weather.csv" and select write
- D&D "Write CSV" again and write from = csvdata. Write to what file = "tem.csv" and select append.
- D&D "output Data Table as Text". Data Table = csvdata Go to properties → output → Text , create var = datatext
- D&D "Message Box". Text* = datatext.
- Save & Debug.

Write to what file*

`{ }` "climate.csv"   ⊕ ▢

How to write ⌄

write

☑ Include headers

↓

Write CSV

Write from*

`{ }` csvdata   ⊕

Write to what file*

`{ }` "tem.csv"   ⊕ ▢

How to write

Append   ⌄

☑ Include headers

↓

Output Data Table as Text   ⋮ ⌃

DataTable*

`{ }` csvdata   ⊕

↓

Message Box

Text*

`{ }` datatext   ⊕

Week-10

Perform Email Automation

- Create a new process.
- Select the "Read Range Workbook" from activities.
- Select the path & enter sheet1 in the 2nd col.
- Next Select the O/p Data Table as taent & create a variable as "Mail Data Table" in properties.
- Next ~~tabt~~ take the "WriteLine" & create a var "TableText" in the properties.
- Select the "for each Row in Data Table" in the Data Table use the created var "Mail Data Table" in the item Name enter the taent currentRow.

- In the body select the "Get Row item" from activities & in the Row column entu "CurrentRow" & Select column as Number & enter '0' (zero) & entu username in value column by creating from properties.
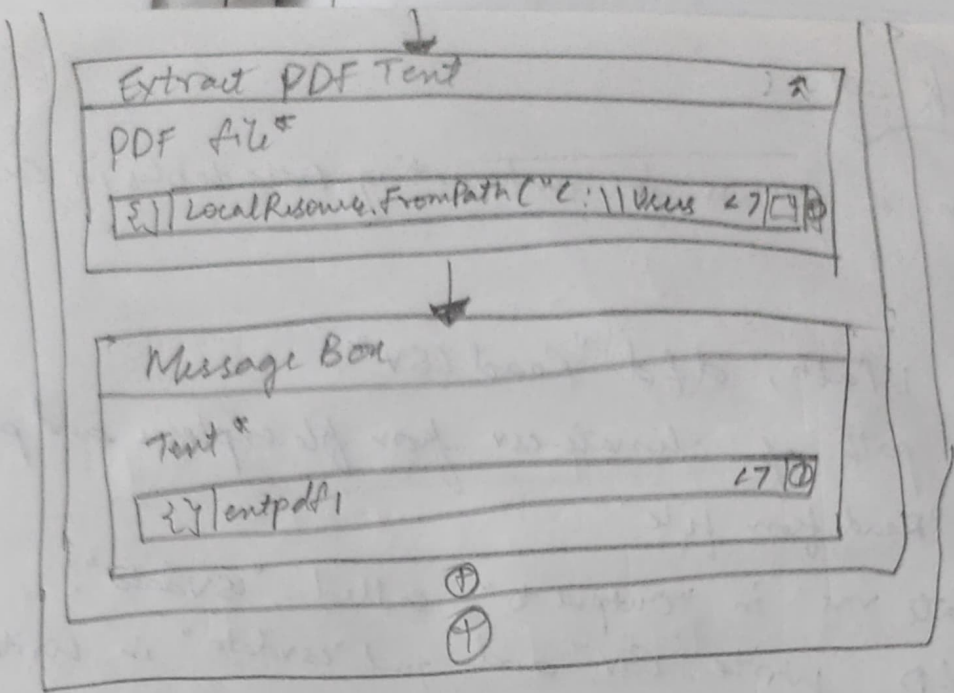
Week 11

Design a process to read all PDF files from a folder and then close them all.
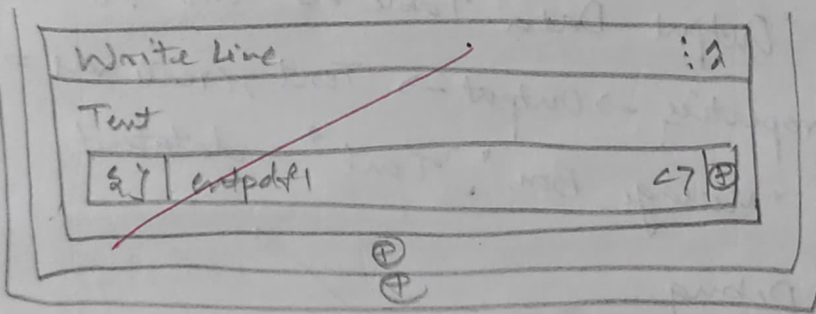
Steps

- Go to UiPath and drag & drop "For Each File in folder"
- In the "In folder" section, select the path to the folder containing all .pdfs.
  - En: "C:\Users\student\Desktop\rpa syu"
- Tick both checkboxes.
- In filter, write "*.pdf"
- In DO, d&d a message Box → Text = CurrentFile.full Name
- Now d&d "extract PDF text" and select the path of the first pdf in the folder.
- ~~Now go to properties~~
- ~~Now d&d message~~ and create var in output named "extpdf1"
- D&D message box again and Text* = extpdf1
- Save & Debug.

```
☐ For Each File in Folder                          ⌃

    For Each
    [CurrentFile

    In Folder*
    [☰] "C:\Users\student\Desktop\rpa syu    ⟨7⟩ ⊕
    ☑ Include subfolder
    ☑ skip folders where access is denied
    Filter by  [☰] "*.pdf"                   ⟨7⟩ ⊕


    ⌐ DO                                     ⋮ ⌃


        ⊕
        Message Box
        Text*
        [☰] CurrentFile.FullName            ⟨7⟩ ⊕
```

```
┌─────────────────────────────────────┐
│ ┌─────────────────────────────────┐ │
│ │ Extract PDF Text            ) ⌃ │ │
│ │ PDF file *                      │ │
│ │ {} LocalResource.FromPath("C:\\Users <7 ☐ ⊕ │ │
│ └─────────────────────────────────┘ │
│            ▼                          │
│ ┌─────────────────────────────────┐ │
│ │ Message Box                     │ │
│ │ Text *                          │ │
│ │                          <7 ⊕   │ │
│ │ {} extpdf1                      │ │
│ │             ⊕                   │ │
│ │             ⊕                   │ │
│ └─────────────────────────────────┘ │
└─────────────────────────────────────┘
```

- Replace the last message box with "Write Line"
  and Text = extpdf1
- Save & Debug.


```
┌─────────────────────────────────────┐
│ ┌─────────────────────────────────┐ │
│ │ Write Line               : ⌃    │ │
│ │ Text                            │ │
│ │ {} extpdf1              <7 ⊕    │ │
│ │             ⊕                   │ │
│ │             ⊕                   │ │
│ └─────────────────────────────────┘ │
└─────────────────────────────────────┘
```

- Repeat the process with .xlsx file too.

Week-12

Create an automation to change the background color of excel cell/rang.

<u>Steps</u>

- Open UiPath, D&D "Excel Process Scope".
- In DO, D&D "Use Excel File"
  Excel File" = Copy any .xlsx file path in UiPath —

- In DO of Use Excel file , D&D "Set Range Color"

  Color* = system.Drawing.color.Blue,
  Range* = "A1:A2"
  SheetName* = "Sheet1"

- Save & Debug.

Week-13

Design a process to Generate Covid-19 report and send this report.

Steps

→ Use "generate datatable from text" and gives data from a csv file or data in csv format.

→ Print the datatable by using "Output datatable as text" and use "message box" and print the table.

→ Use every row in datatable and use get row item to assign a variable for each value in the row.

→ Now use "Use Application word" and in the DO section use "word application scope" and give the path to the word doc.

→ In the do section create a string variable and write the text which needs to be added to the report.

→ Now use "Append Text" and add the string to the word doc.

→ Now use "same doc as pdf" and save as pdf.

→ Now using "send email" send the pdf to the required recipient.

Week-14

Create a process which reminds a user to take his medicine after every 4 hours.

Steps

- Create a new process.
- Drag & Drop "Delay" and fix ~~time~~ duration as "00h 01m 05.000s"
- D&D "Message Box" and write some text "Sathwika take medicine"
- Drag & Drop "Send Email"

  Set Email as yours

  Save as draft   • False

  To*

  22X01A66CY@cmrithyderabad.edu.in

  Subject → "Sathwika your account has been hacked,

  Body→" Sathwika, Your account has been hacked by cyber criminal department".