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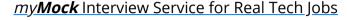
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What do you mean by Automation? How to automate tasks using RPA Tools? What are the various UiPath Automation Examples?

I believe you must have wondered what could be the answers to these questions. Well, in this article on UiPath Automation Examples, I am going to answer all your questions on how Robotic Process Automation helps us to automate tedious tasks with the help of RPA Tools such as UiPath, Blue Prism and Automation Anywhere. Apart from this, if you wish to master yourself in RPA and become an RPA Certified expert, then I believe this article will help you learn various kinds of automation such as PDF, Excel, Email, Web and so on.

The following topics will be covered in this article:

- What is Automation?
- What is UiPath?
- Automation Examples
 - Moving Files from one Source Folder to Destination Folder
 - Web Automation
 - Email Automation
 - Excel Automation
 - PDF Automation

So, let us get started.

What is Automation?

Consider a scenario where a person's sole job is to collect data from multiple sources and then aggregate them in an Excel file. Refer to the below image. Now, do you think this person should do this job on a daily basis or instead automate this task to use his talents in a better way? Obviously, the second option sounds better.



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So, a person can just automate this task of collecting data from various sources and aggregating them into a single file by using Robotic Process Automation.

If I have to define Automation for you, then Automation is the technique of reducing human effort and improve the performance simultaneously.

To automate tasks, we need RPA Tools to do so, and one of such tools is UiPath. So, next in this article on UiPath Automation Examples, let me tell you in short, what UiPath is.

What is UiPath?

UiPath is a <u>Robotic Process Automation</u> tool which offers desktop automation with the help of drag and drop functionality of activities. This tool comes with a Community Edition that is free for lifetime. So, if you are new to automation, then you can start learning to automate tasks and eliminate human intervention by using this tool.



Now, let us get into the main topic and start with the UiPath Automation Examples.

UiPath Automation Examples

In this section of the article, we will see different types of automation one by one. The following are the automation's that you would see:

- Moving Files from Source Folder to Destination Folder
- Web Automation
- Email Automation
- Excel Automation
- PDF Automation

So, folks let us get started with this article on UiPath Automation Examples.

Moving Files from Source Folder to Destination Folder

Task

The aim is to automate the process of moving files from the source folder to the destination folder.

Steps To Automate

Follow the below steps to achieve the aim:

- Assign the source directory to a variable.
- Count the number of files to be moved by using a *Counter* variable.
- Mention the Destination path in the *Move file* activity.
- For each item in the source path, use the counter variable to move the files to the destination path.

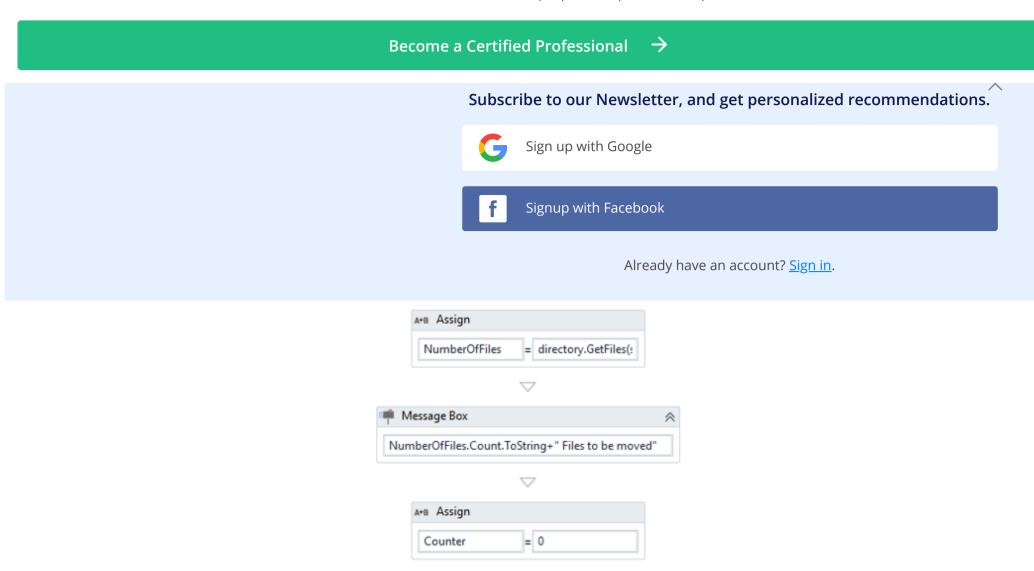
Solution

Step 1: Create the variables *NumberOfFiles*, *sourcepath* and *Counter*. Now, assign the default value of *sourcepath variable* to the *Path of Source Directory*. Refer below.

Name	Variable type	Scope	Default
NumberOfFiles	String[]	Sequence	Enter a VB expression
srcpath	String	Sequence	"C:\Users\Sahiti\Desktop\Example\Source"
Counter	Int32	Sequence	Enter a VB expression

Step 2: Drag the **Assign activity** and assign the **To** section to **NumberOfFiles** and the **value** section to **directory.GetFiles(sourcepath)** function. This would take all the files from the source path.

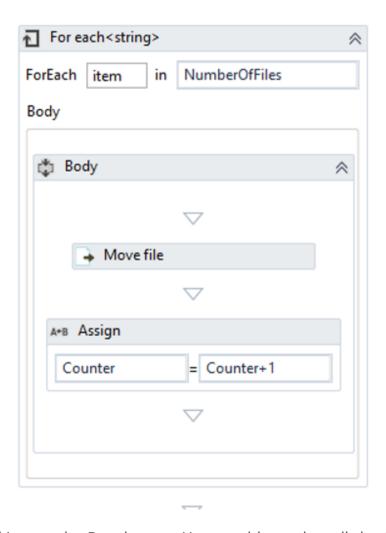




- **Step 5:** Now, drag the **For Each activity** and mention for each item in **NumberOfFiles**, you have to move the file to the Destination path. To do so, follow the below steps:
- **Step 5.1:** In the **Body** section of this activity, drag the **Move File activity**, and mention the **Destination path** in the **Destination** section of **Properties Pane**.
- **Step 5.2:** Go to the *properties section* of **For Each activity** and in the **Type Argument** mention *String*. Refer to the snapshot below.

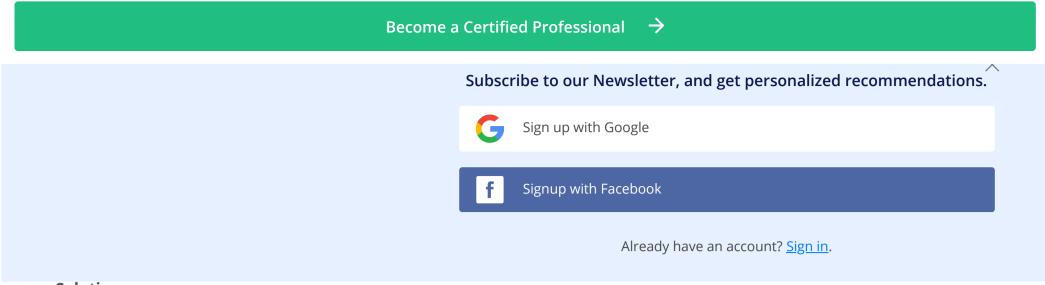


Step 5.3: To move all the files from the source folder to the destination folder, drag the **assign activity** and assign the **To** value to **Counter variable** and the **value** section to **Counter + 1.** Refer below.



Step 6: Execute this sequence by clicking on the **Run** button. You would see that all the file moved to the destination folder.

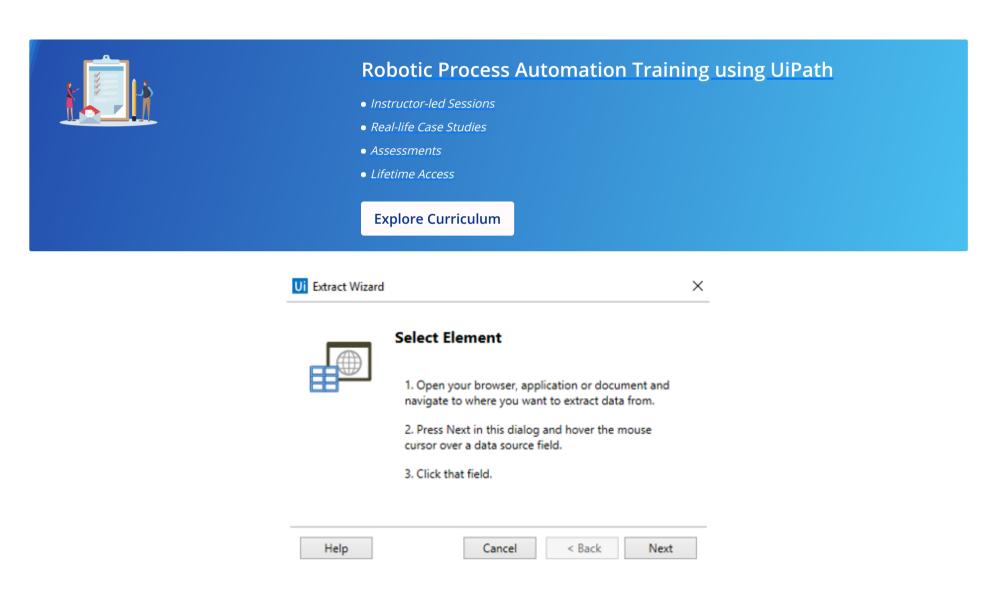




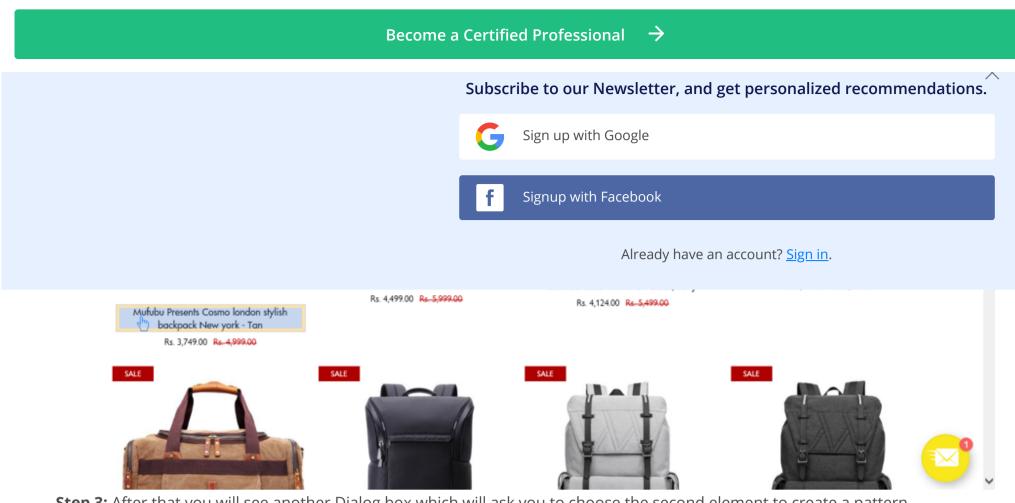
Solution

Step 1: Choose the website from where you want to extract data.

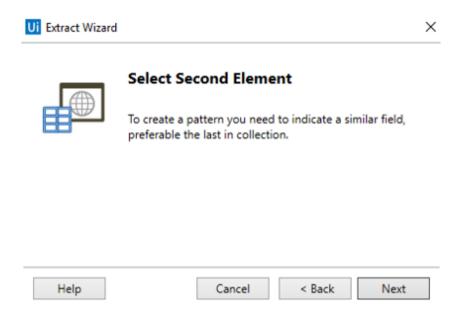
Step 2: Choose the **Data Scraping** option from the Ribbon and select the element you want to choose. Press **Next** in the below Dialog Box.



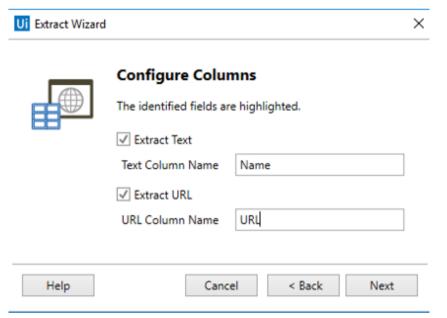
Step 2.1: Hover the mouse over a data source field and then click on the data source field.



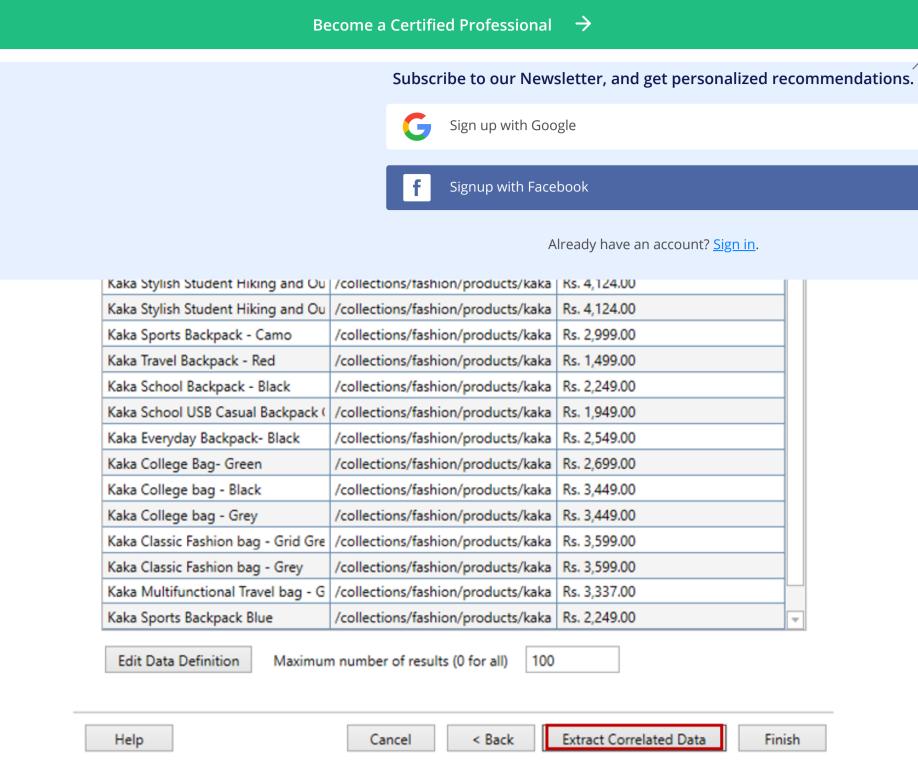
Step 3: After that you will see another Dialog box which will ask you to choose the second element to create a pattern.



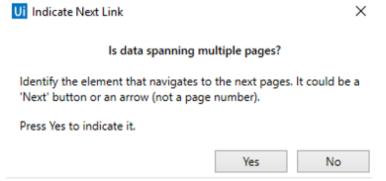
Step 4: Once you choose the second element to create a pattern, you will get an option to Configure Columns. In the Dialog Box, that opens up, you can rename the Column name and extract URL also. After that click on Next. Refer Below.



Step 5: You would see the below output. Now, to extract other data sources from the website, click on the *Extract Correlated Data* option and repeat the above steps.



Step 6: Once you are done extracting all the required data, click on **Finish**. This action would open a dialog box which will ask you if you wish to span the data across multiple pages. Refer below.



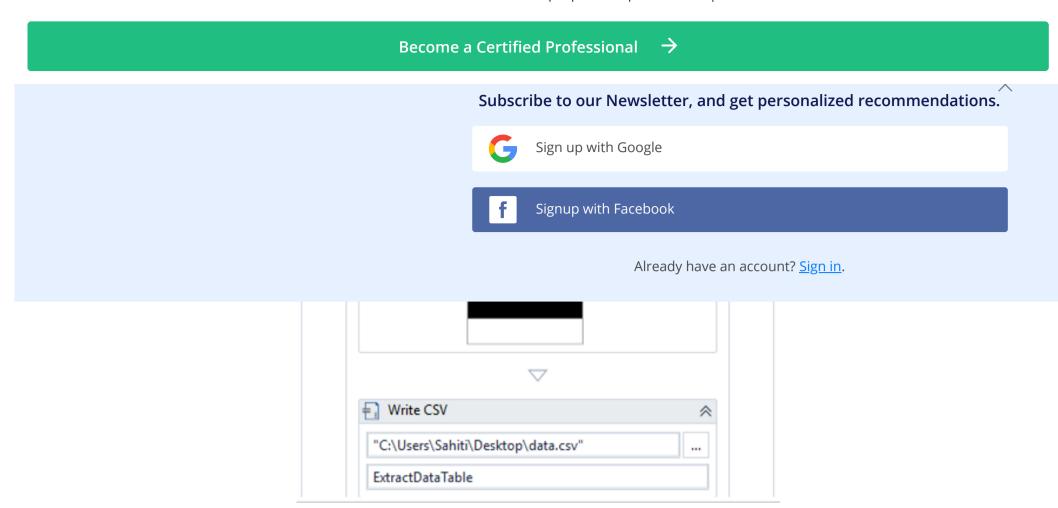
Step 7: To span across multiple pages, choose **Yes** and hover the mouse over the region which redirects you to the next page. Then you will be redirected to your UiPath Dashboard. Refer below.

Showing items 1-20 of 25.

1 2 An

Step 8: Now to store all the extracted data into a .csv file, drag a **Write CSV activity** into the **Do** section of the **Data Scraping**.

Step 9: In the **File Path section** of this activity, mention the **path of the .csv file** where you want to store the extracted data and then mention the **ExtractDataTable variable** in the **DataTable section**. Refer below.



NOTE: The ExtractDataTable variable is the output variable that is automatically generated from the Data Scraping Wizard. You can find this variable in the Extract Structured Data activity.

Step 10: Execute this sequence by clicking on the **Run** button. You would see that the data is getting stored in the .csv file as below.

Name	URL	Price
Mufubu Presents Cosmo london stylish backpack Nev	vy/collections/fashion/products/mufubu	Rs. 3,749.00
Mufubu Presents Cosmo london Laptop Business case	N/collections/fashion/products/mufubu	Rs. 4,499.00
Mufubu Presents Cosmo london Laptop Business case	N/collections/fashion/products/mufubu	Rs. 4,124.00
Kaka Fashion Backpack - Colorful	/collections/fashion/products/kaka-fas	Rs. 2,174.00
Kaka Canvas Luggage Bag - Khaki	/collections/fashion/products/kaka-car	Rs. 4,349.00
Kaka Digital Combination Multifunctional Anti Theft B	Bac/collections/fashion/products/kaka-wa	Rs. 4,874.00
Kaka Stylish Student Hiking and Outdoor Student Back	kp /collections/fashion/products/kaka-sty	Rs. 4,124.00
Kaka Stylish Student Hiking and Outdoor Student Back	kp /collections/fashion/products/kaka-sty	Rs. 4,124.00
Kaka Sports Backpack - Camo	/collections/fashion/products/kaka-spo	Rs. 2,999.00
Kaka Travel Backpack - Red	/collections/fashion/products/kaka-tra	Rs. 1,499.00
Kaka School Backpack - Black	/collections/fashion/products/kaka-sch	Rs. 2,249.00
Kaka School USB Casual Backpack Colour Blue	/collections/fashion/products/kaka-lap	Rs. 1,949.00
Kaka Everyday Backpack- Black	/collections/fashion/products/kaka-eve	Rs. 2,549.00
Kaka College Bag- Green	/collections/fashion/products/kaka-stu	Rs. 2,699.00
Kaka College bag - Black	/collections/fashion/products/kaka-fas	Rs. 3,449.00
Kaka College bag - Grey	/collections/fashion/products/kaka-fas	Rs. 3,449.00
Kaka Classic Fashion bag - Grid Grey	/collections/fashion/products/kaka-cla	Rs. 3,599.00
Kaka Classic Fashion bag - Grey	/collections/fashion/products/kaka-cla	Rs. 3,599.00
Kaka Multifunctional Travel bag - Grey	/collections/fashion/products/kaka-mu	Rs. 3,337.00
Kaka Sports Backpack Blue	/collections/fashion/products/kaka-spo	Rs. 2,249.00
Kaka College USB bag - Blue	/collections/fashion/products/kaka-sty	Rs. 3,599.0

Now, in this article on UiPath Automation Examples let us move onto the next automation i.e. the Email Automation.

Email Automation

Task

The aim is to save the attachments of the top 30 emails which have a keyword in the subject line. The attachments will be stored in a particular folder.

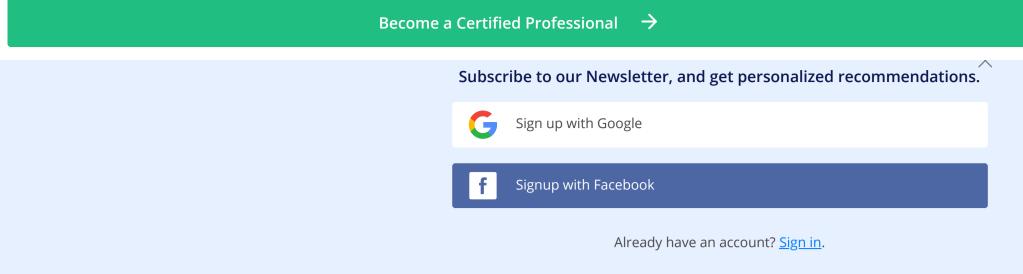
Steps To Automate

Follow the below steps to achieve the aim:

- Assign the Email address to a variable and mention the password in the *Get Password* activity.
- Use the Get IMAP mail messages activity and mention the folder, port number and server.
- For each mail mention the keyword that you want to consider and then use an If-else loop.
- In the If section, use the Save Attachments activity and mention the destination directory.





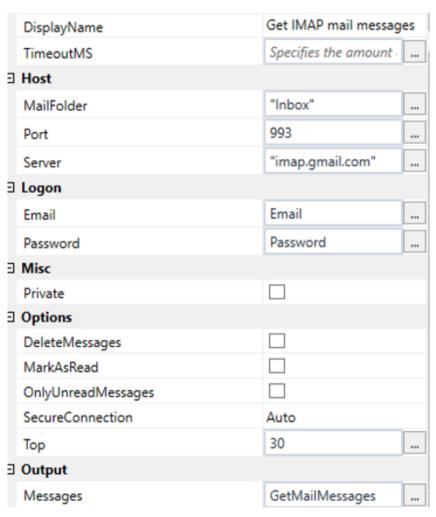


אנבף 4. שו מצ נוופ שבנ וויואר ויומון ויופאמצב מנויינץ מווע ווופוועטון נוופ וטווטשוון עפנמווא ווו נוופ רו טייבו

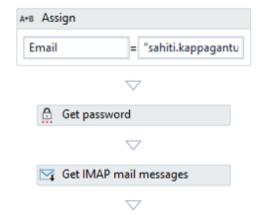
In the section of:

- MailFolder "Inbox"
- Port 993
- Server "imap.gmail.com"
- Email Email variable
- Password Password variable
- Top 30
- Messages GetMailMessages

Refer to the snapshot below.



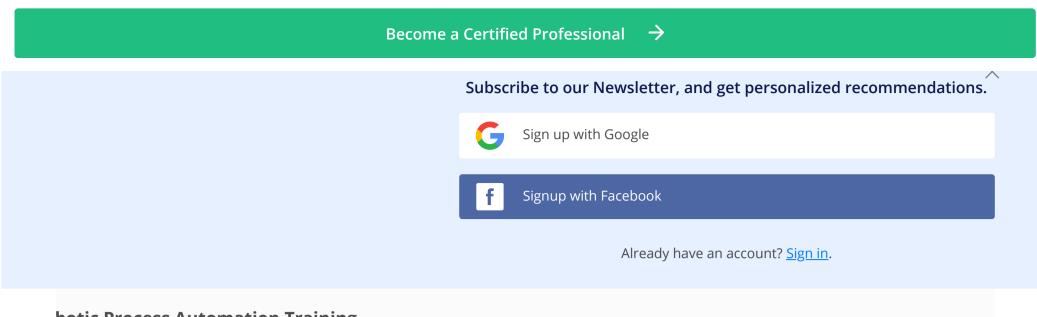
Your execution should look like below till the above step.



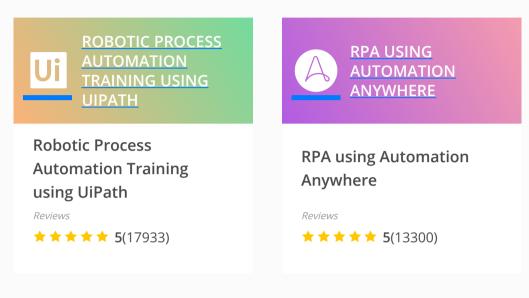
Step 5: Drag the For Each activity, and then mention mail in the item section and the GetMailMessages in the variable expression section.

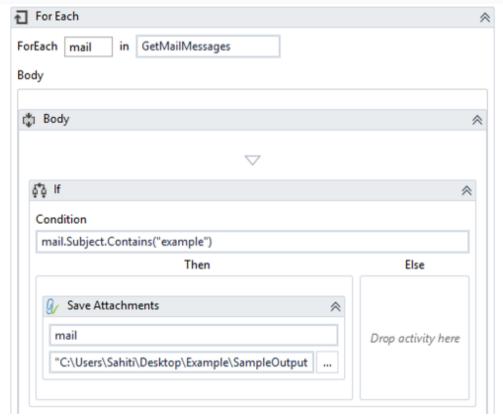
Step 6: Now, in the Body section of this activity, drag the **If activity**. In this activity, you have to specify the condition to save the attachments if the subject line contains a keyword. To do so, follow the below steps.

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Step 7: Execute this sequence by clicking on the **Run** button. You would see that all the emails having the keyword example, in the subject line, would be read and the attachments would be stored in the mentioned folder.

Now, in this article on UiPath Automation Examples let us move onto the next automation i.e. the Excel Automation.

Excel Automation

Task

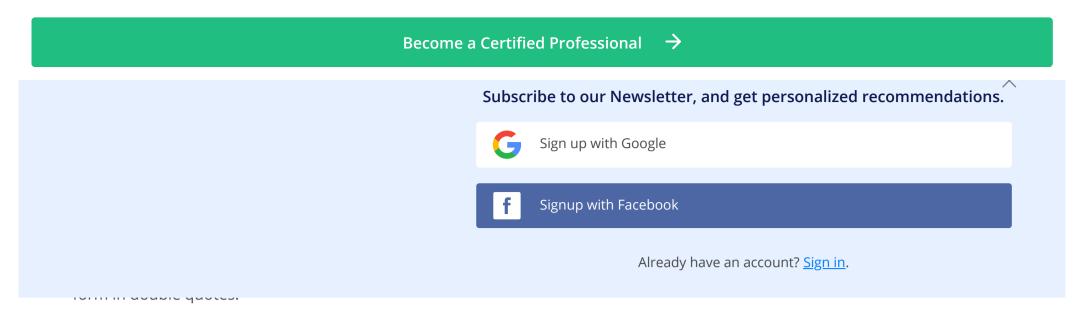
The aim is to fill a google form from the data stored in a .csv file automatically.

Steps To Automate

Follow the below steps to achieve the aim:

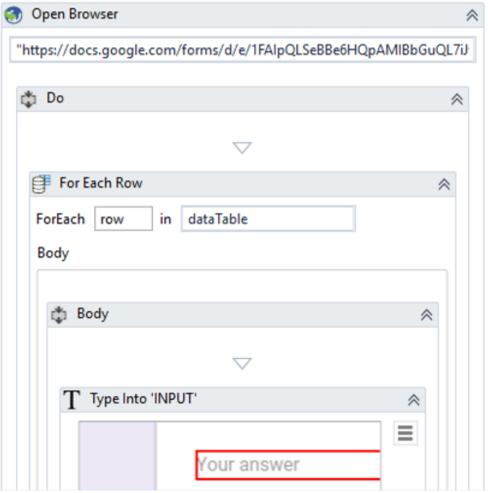
- Create a Google form and mention details you want to fill in.
- Create a .csv file and mention all the details that you want to fill in the google form.
- Now use the *Open Browser activity* and mention the URL.
- Use the *For Each Row* in the Excel Table, configure to fill the values in the google form by using the *Type Into* activity.
- Use the *Mouse Click activity* and hover your mouse over the Submit button.
- Then, use the *Delay activity* and mention the time you want to consider for delay.
- Drag the Go Back activity so that you are redirected to the Google form again and to fill





Step 4: In the **Do** section of this activity, drag the **For Each Row activity** and mention ForEach row in **dataTable**.

Step 5: Next, in the Body section of this activity drag the Type Into activity. Your sequence should look like below till now.



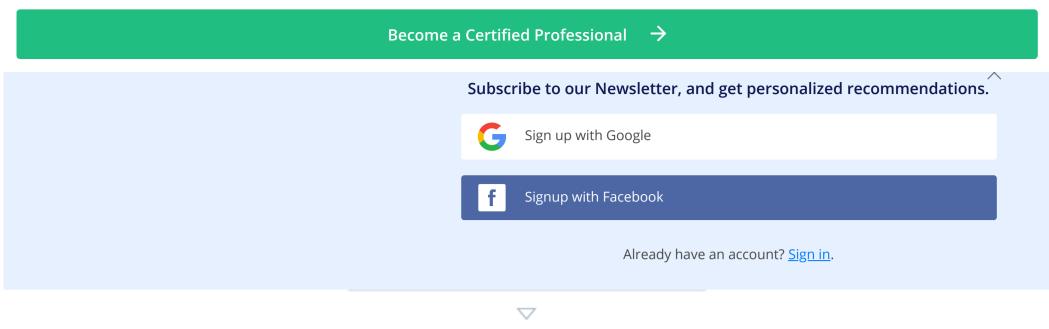
Step 5.1: Now, indicate on the screen i.e. on the google form where you want to fill in the data. Refer below.

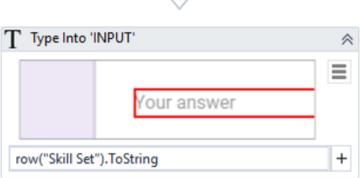
Job Application Form

Full Name Your answer

Step 5.2: In the Type Into activity, mention row("Full Name"). ToString, where Full Name is the row name of the CSV file.

Step 6: Now, you have to repeat the above step for all the values that you want to fill in the Google form. Here I want to fill in the details for **Phone Number, Past Experience in Years, Educational Qualifications, Skill Set,** and **Position.** So, mention **row("Phone Number").ToString, row("Experience").ToString, row("Educational Qualifications").ToString,row("Skill Set").ToString, row("Position").ToString respectively. Refer below.**



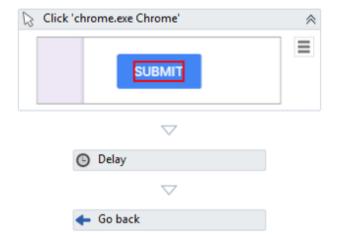


Step 7: Now, after indicating all the elements you have to click on the Submit button. To do that, drag the Click activity and then indicate on the **Submit button** as below.

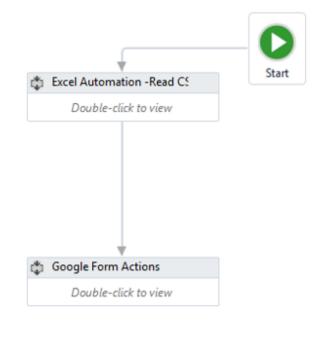


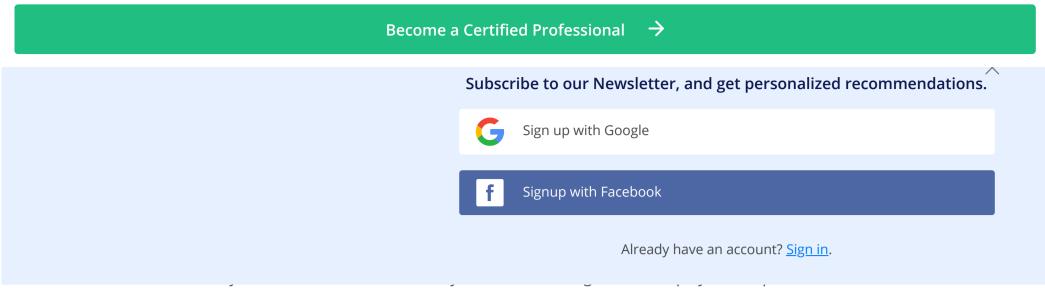
Step 8: Add the **Delay activity** and *mention the duration to be 3-5 seconds*. This is done to consider the page load time of the google form.

Step 9: Now, if you have to add multiple records from the .csv file, to do so, you have to drag the **Go back activity** at the end of the Sequence. Your final three steps of automation should look like below.



Step 10: Now connect the flowchart starting point to the sequence containing Read CSV activity and then connect this particular node to the Sequence containing all the actions related to Google Form.

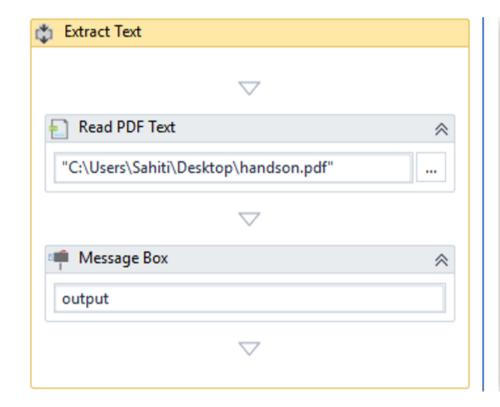


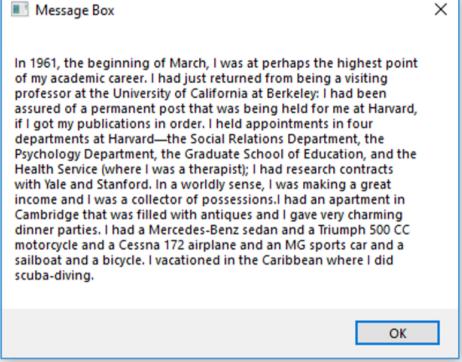


• To extract Text inside images use the Read PDF with OCR activity and use a message box to display the output.

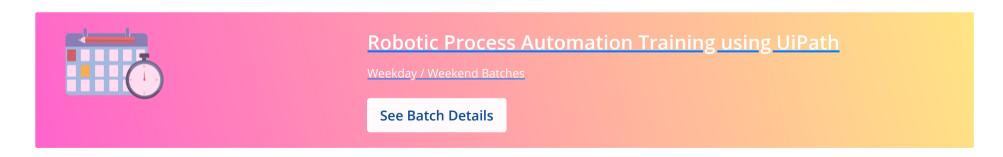
Solution

- **Step 1:** Follow the below steps to extract Text only from PDF documents.
- **Step 1.1:** Drag the **Read PDF Text Activity**. In the activity, mention the path of the PDF Document from which data has to be extracted.
- **Step 1.2:** Now, in the **Properties Pane**, of the **Read PDF Text Activity**, mention an output variable to see the output. To set an output variable, press on **CTRL + K**, and give a name. Here I have mentioned as **output**.
- **Step 1.3:** After that, drag a message box in the same sequence and mention the output variable in it.
- **Step 1.4:** Execute this sequence by clicking on the **Run** button. Your complete sequence and the output should look as shown in the below snapshots, respectively.



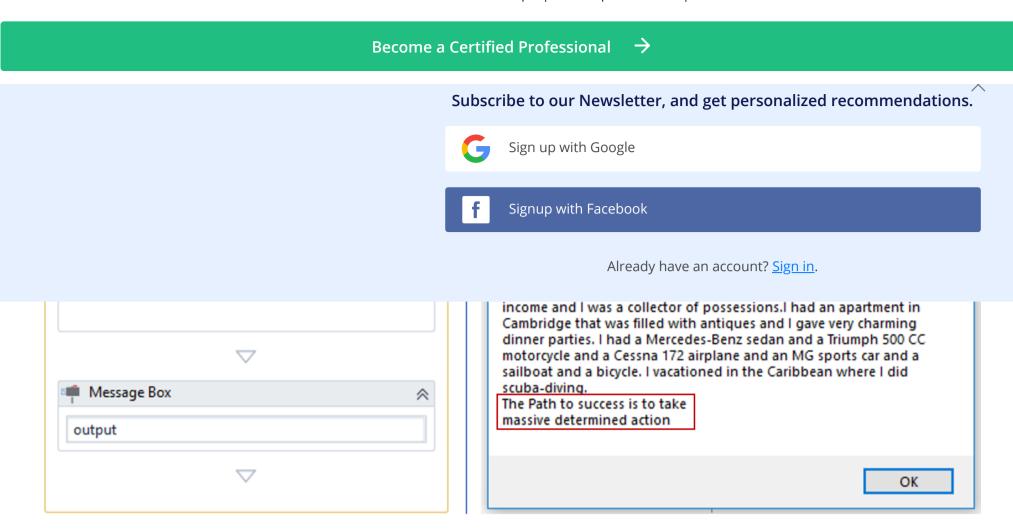


Step 2: Now, similarly if you want to extract the text in the images follow the below steps.



- **Step 2.1:** Drag and drop the **Read PDF with OCR Activity.** In the activity, **mention the path of the PDF Document** from which data has to be extracted.
- **Step 2.2:** Now, search for an OCR Engine, and drag and drop an **OCR Engine** based on whichever is installed. Here I have used **Google OCR Engine**.
- **Step 2.3:** Now, in the **Properties Pane**, of the **Read PDF with OCR Activity**, mention an output variable to see the output. To set an output variable Press on **CTRL + K**, and give a name. Here I have mentioned as **output**.
- Step 2.4: After that, drag a message box in the sequence and then mention the output variab

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If you wish to further know how to extract specific elements from PDF Documents, refer to the article on <u>UiPath PDF Extraction</u>.

So, folks, that's an end to this article on UiPath Automation Examples. I hope you enjoyed reading this article on UiPath Automation Examples and learnt how to automate tasks. If you wish to further learn about Robotic Process Automation and build your career as an RPA Developer, then you can check out our course on *Robotic Process Automation Using UiPath*. This course will let you enhance your knowledge on RPA and will give you an extensive hands-on experience in UiPath.

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This is purely a gmail configuration question I understand the UiPath side.

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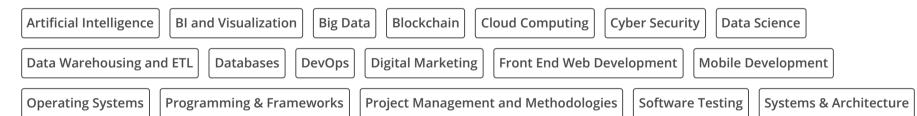
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