

Web Scraping with UiPath Studio – Robotic Process Automation(RPA)

Report by: Thummar Harsh

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Github:

https://github.com/harsh-thummar-146/Web_scraping_with_UiPathStudio_RPA

Important links:

https://github.com/harsh-thummar-146/Web_scraping_with_UiPathStudio_RPA/blob/main/Main.xaml

Scraped Data Excel File:

https://github.com/harsh-thummar-146/Web_scraping_with_UiPathStudio_RPA/blob/main/Extract.csv

Visualisation Tool: UiPath Studio

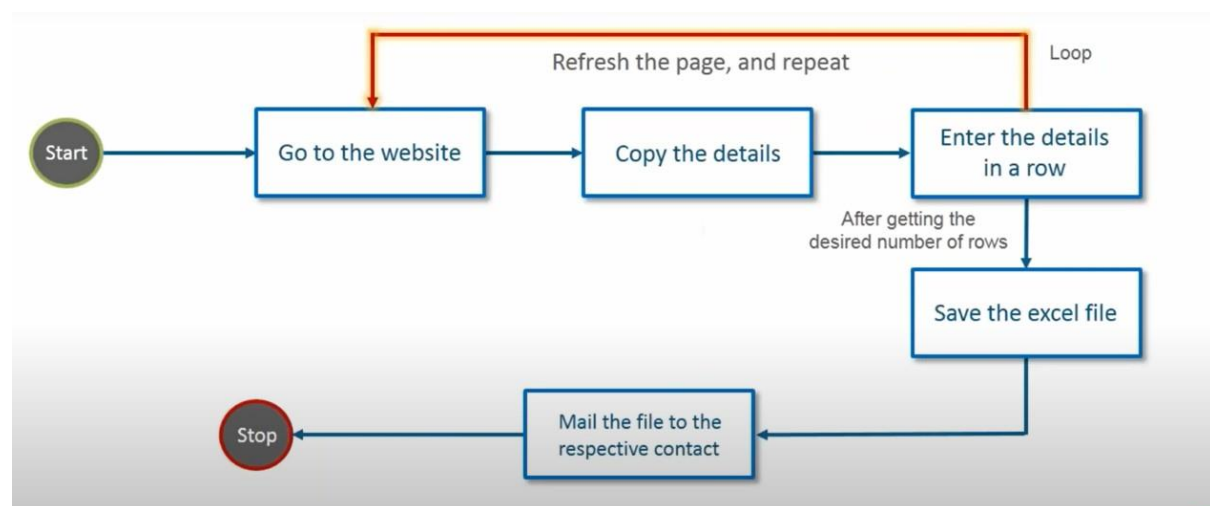
Goal:

Create an automated software robot which scrapes large number of data from website (I used 'https://www.fakenamegenerator.com/' for dummy data) as per the user requirement and Export it to Excel file in '.csvs' format after that robot will automatically send a mail attached this excel report to the user.

This whole process is done by bot there is no user interference in that.

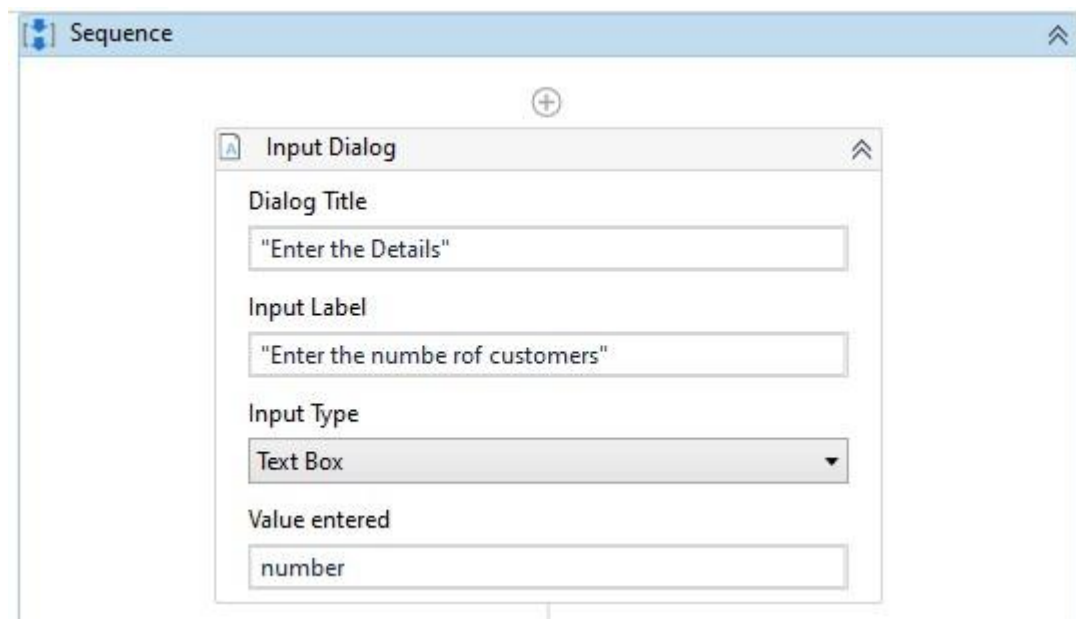
(Note that amount of Data is decided by the creator (our case-100) and it ask the mail id where this report will be sent via mail)

Flow:

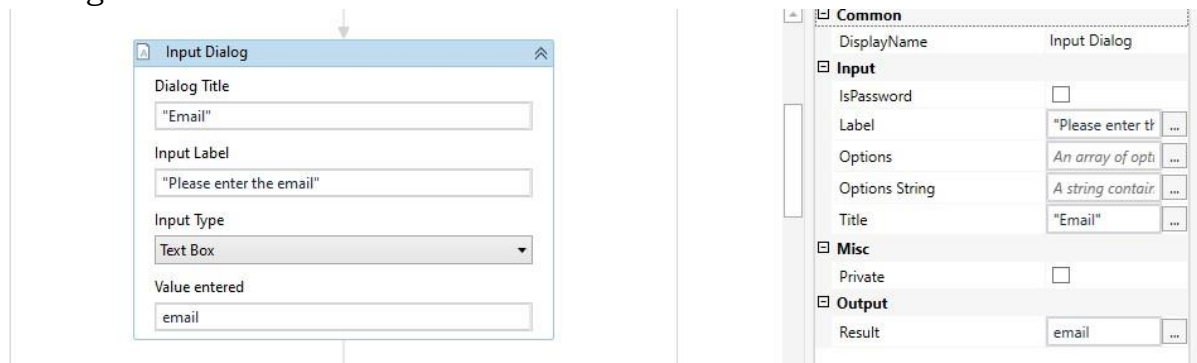


Instructions:

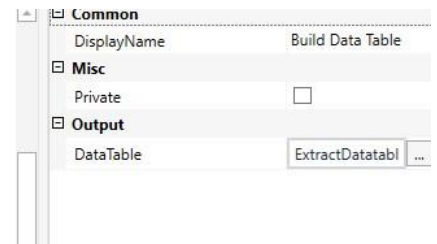
1. Create a blank project in UiPath Studio the whole block sequence is done in the Main workflow
2. Create the 'sequence' where this whole block coding will take place
3. Create Input dialog box asking user how much data user wants and mail id where it will send.



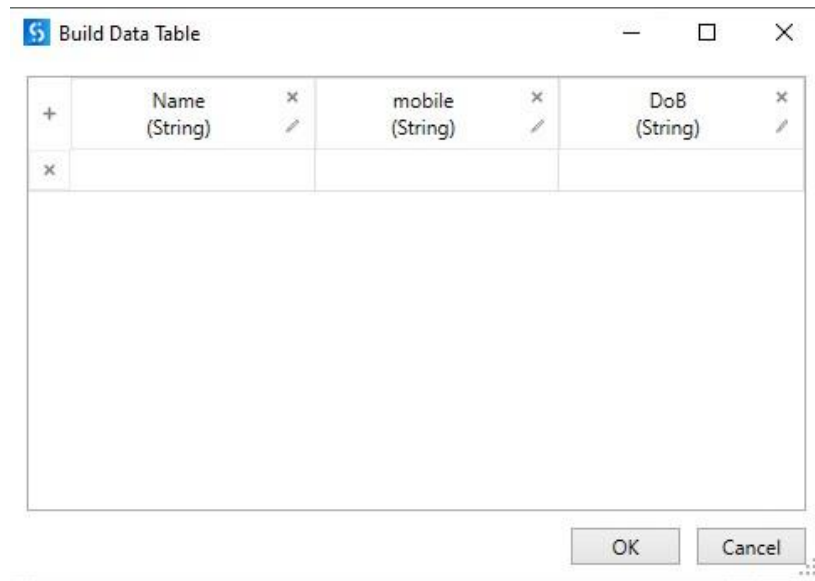
Asking for the mail id



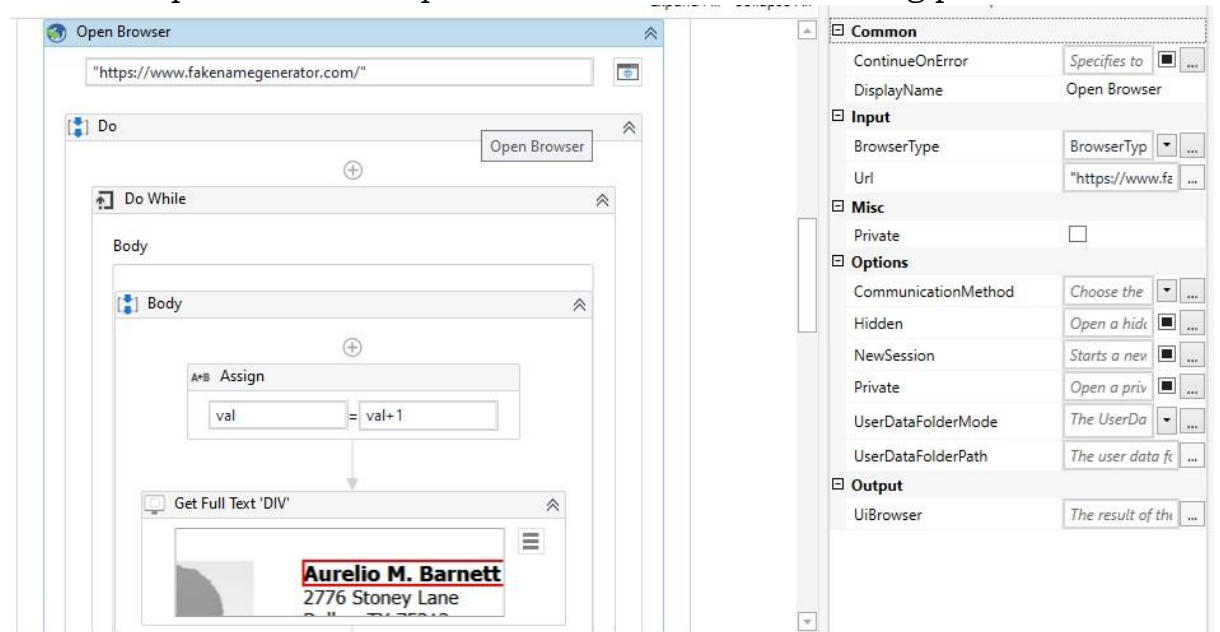
4. Now Build 'DataTable' as and decide the row and columns as per the user requirement



Create rows and columns

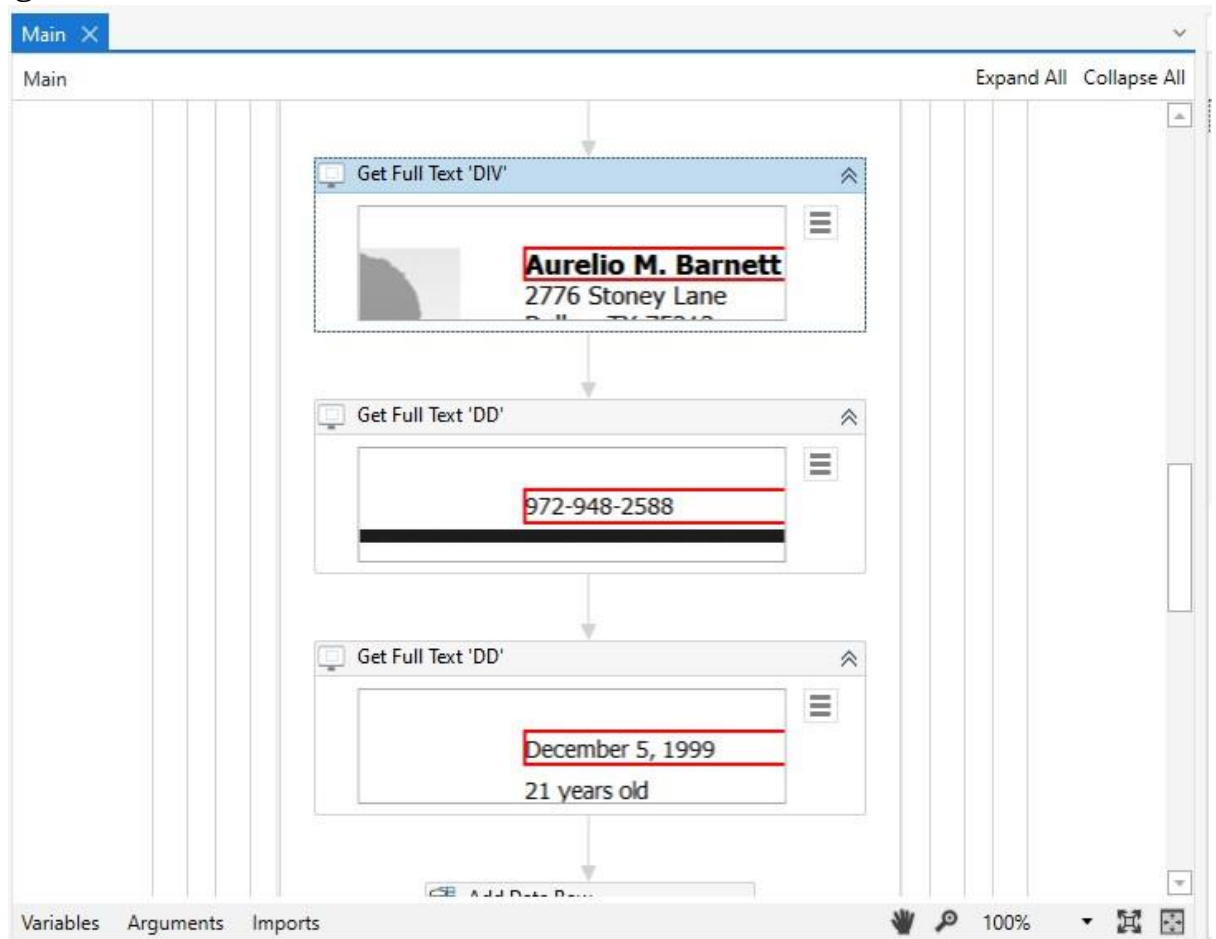


5. Now in sequence create 'Open browser' and follow ensuing photo.



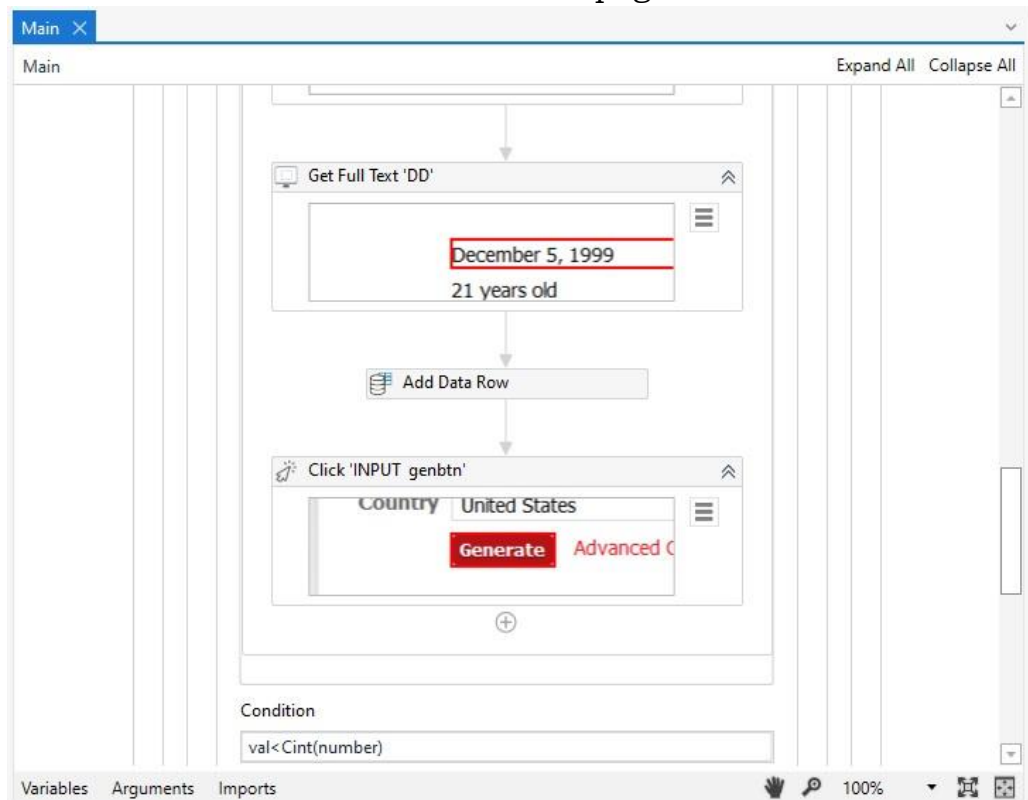
6. We need to create a loop because we want n number of the customers so we needed to go through every step again till it reaches requirement number which was user defined.

7. We need to create a variable value which will increment by 1 by every iterations.
8. And in that loop we want 'customer name' so we create 'Get Full Text' window and guide the computer from where it need to scrap the customer name and this will do for all
9. Now same procedure follow for Date of birth and phone number create 'get full text' in menu and store it in different variables



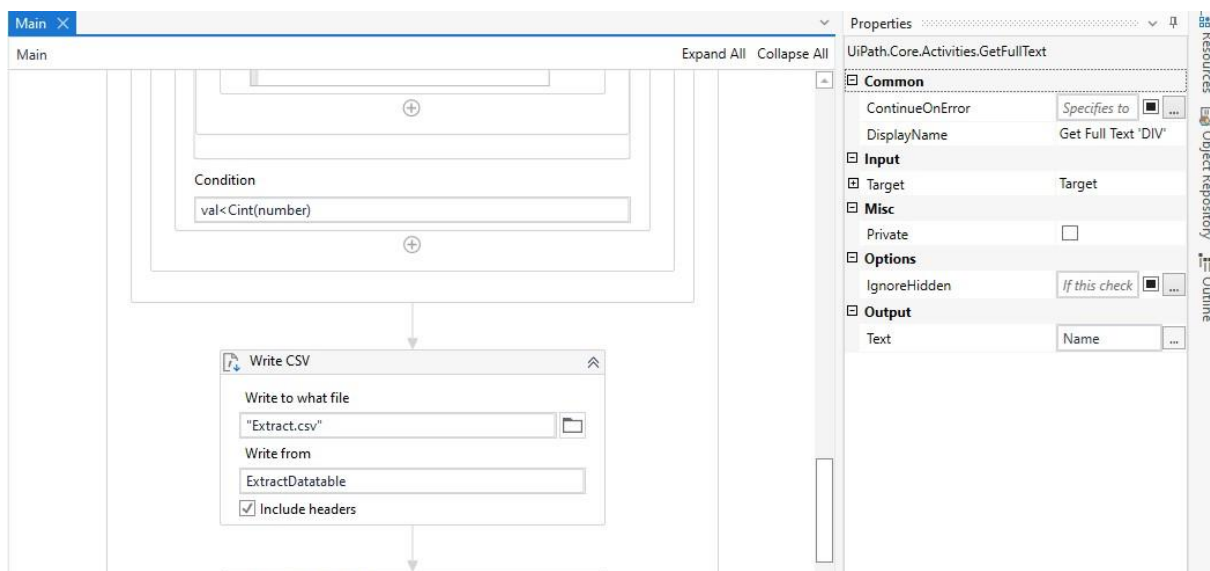
10. We need to store the data row wise so create 'Add data row' feature

After that we need to refresh the web page for new data.

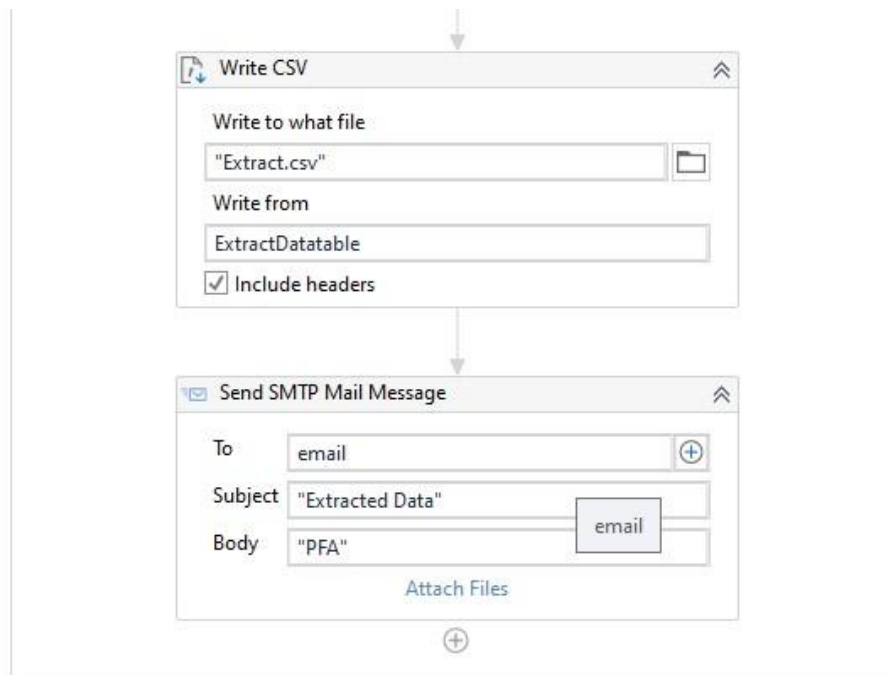


Now We have a ready data and Store in Variable 'DataFrame'

-After that we need to export this data to excel file. Use function 'write csv'



And we need to send this file to user given mail id for that,



Here, Our Sequence completes and ready for Execution. In that Firstly, It will open the Website in the browser 'FakenameGenerator.com' in that it will go to 'name' part and Scrap it into variable call 'name'. Same for 'birthday' and 'phone number'

This Whole data is stored in The UiPath Studio's DataFrame So it doesn't have to open Excel file and write in it every iterations we store in data frame and At once we write all the data in excel file So it Saves computing power

After that, This file will be sent to the mail id as an attachment

Here bot stops working.

Variable list:

value entered			
Name	Variable type	Scope	Default
number	String	Sequence	Enter a VB expression
val	Int32	Sequence	0
Name	String	Sequence	Enter a VB expression
phone	String	Sequence	Enter a VB expression
birthday	String	Sequence	Enter a VB expression
ExtractDatatable	DataTable	Sequence	Enter a VB expression
email	String	Sequence	Enter a VB expression

Variables Arguments Imports 100%