

## Module 4: User Events, Recorder and Scraping

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Demo 2 – Solution

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## Demo 2

➤ Create an automation project which does the following:

1. Ask the user for an email-id
2. Open Flipkart website using this link: <https://www.flipkart.com/>
3. Search for any particular product from the search box
4. From the result page (of the product searched) pick the name of each product with their respective price and write it in an Excel sheet
5. Finally, excel sheet should be mailed to the user

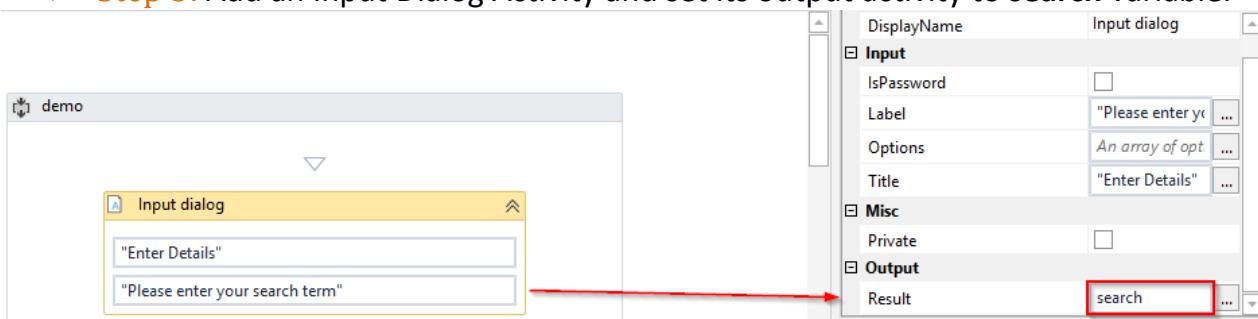
	A	B
1	Name	Price
2	Blackberry Q5 (White, 8 GB)	8,900
3	Blackberry DTEK50 (Grey, 16 GB)	20,300
4	Blackberry Optimus (Titanium Silver,	39,490
5	Blackberry Q10 Special Edition (White,	8,999
6	Blackberry Z10 (Pure White, 16 GB)	8,825
7	Blackberry Curve 9320 (Black, 512 MB)	3,945
8	Blackberry Z10 Special Price (Charcoal E	7,315
9	Blackberry Priv (Black, 32 GB)	25,999
10	Blackberry 9720 (Black, 512 MB)	6,999
11	Blackberry Curve 9320 (White, 512 MB)	4,999
12	Blackberry Classic (Black, 16 GB)	17,690
13	Blackberry 9360 (Black, 512 MB)	4,399

## Demo 2 – Solution

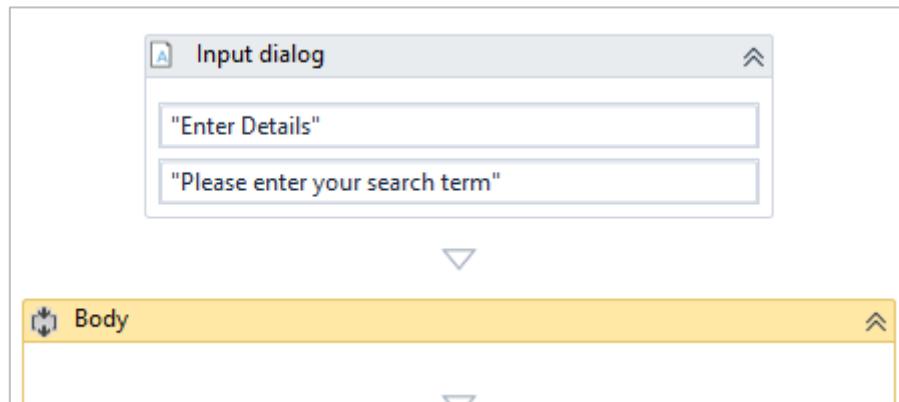
- **Step 1:** Create a blank project and, on the Design tab, in the File group, select New -> Sequence. The New Sequence Diagram window is displayed. Give a name to the Sequence
- **Step 2:** Declare the variables as shown in the screenshot below. Fill in your email ID and password in the Default field of email and password variables.

Name	Variable type	Scope	Default
email	String	demo	"<Enter your mail ID>"
password	String	demo	"Enter your Password"
mailmessage	List<MailMessage>	demo	Enter a VB expression
search	String	demo	Enter a VB expression

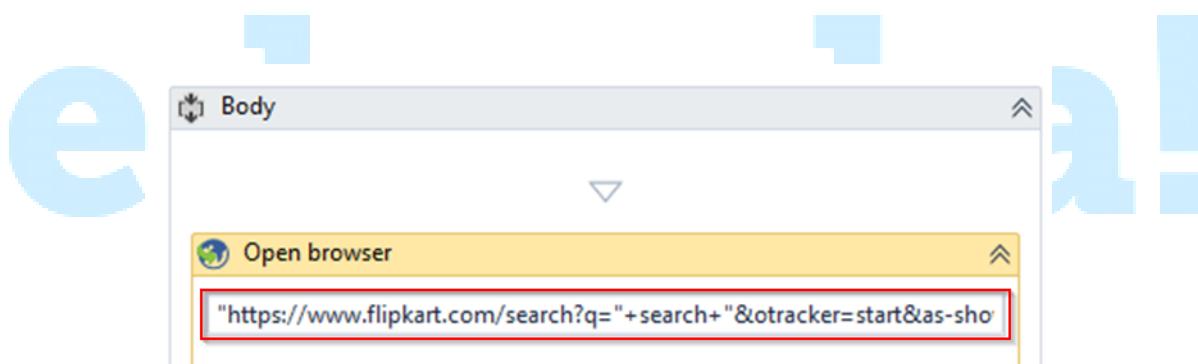
- **Step 3:** Add an Input Dialog Activity and set its output activity to **search** variable.



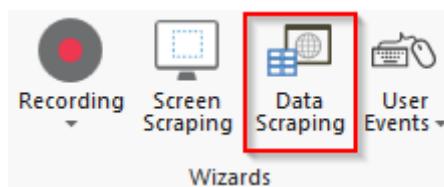
- Step 4: Add another **Sequence** after the Input Dialog Activity.



- Step 5: In this newly created sequence, add Open Browser Activity and enter the following URL:  
"https://www.flipkart.com/search?q="+search+"&otracker=start&as-show=on&as-off"



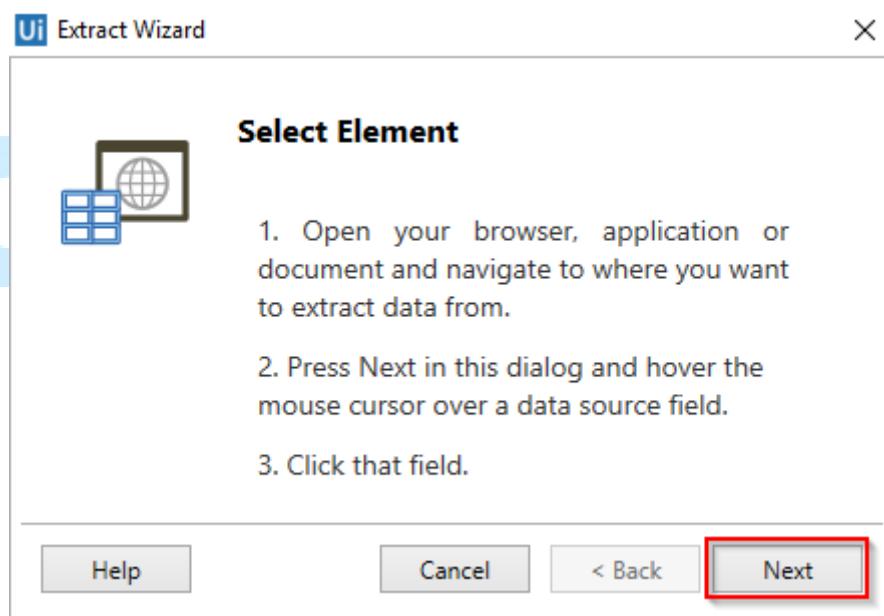
- Step 6: Now select the **Do** container of the Open Browser activity and select **Data Scraping**:



1. Navigate to the flipkart website and search for Iphone.

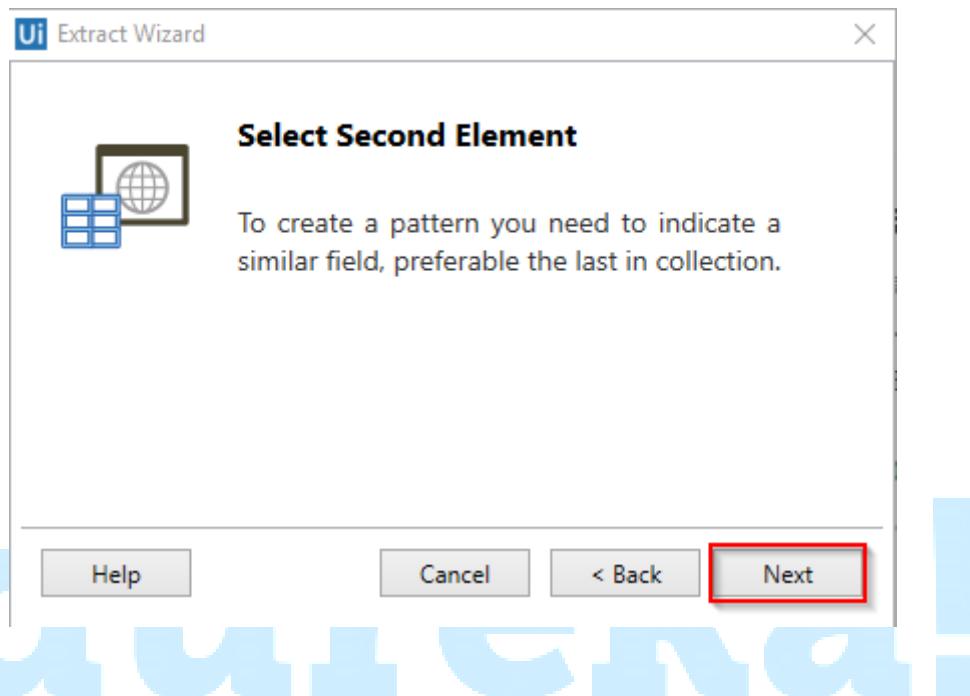
The screenshot shows the Flipkart homepage with a search bar containing 'iphone'. Below the search bar, there are navigation links for ELECTRONICS, APPLIANCES, MEN, WOMEN, BABY & KIDS, HOME & FURNITURE, BOOKS & MORE, and OFFER ZONE. The main content area displays search results for 'iphone', showing 1 - 24 of 138 results. A featured product is the Apple iPhone 6 (Gold, 32 GB) with a price of ₹25,891. The product page includes details like 4.4+ ratings, 28,404 reviews, and various specifications such as 32 GB ROM, 4.7 inch Retina HD Display, and 8MP Rear Camera | 1.2MP Front Camera.

2. Back in your Extract Wizard, select Next and highlight the Iphone's Title.

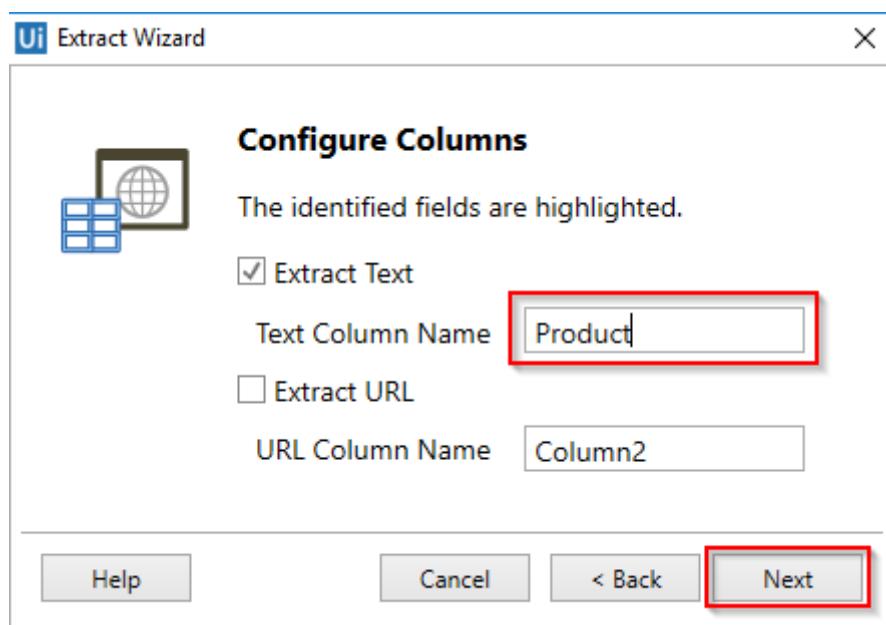


The screenshot shows the product page for the Apple iPhone 6 (Gold, 32 GB) on Flipkart. The product title 'Apple iPhone 6 (Gold, 32 GB)' is highlighted with a red box. Below it, the price ₹25,891 and a green 'Assured' badge are visible. The product has a rating of 4.4★ and 28,404 reviews. A list of specifications follows, including 32 GB ROM, 4.7 inch Retina HD Display, 8MP Rear Camera | 1.2MP Front Camera, Li-Ion Battery, A8 Chip with 64-bit Architecture and M8 Motion Co-processor, and Brand Warranty of 1 Year. To the right, there are offers like 'Up to ₹20,000 Off on Exchange' and 'EMI starting from ₹1256/month'. An 'Offers' section also lists 'Special Price'.

- Now click on next and highlight another iphone's title like you did in the previous step.



- Once the previous step is done, configure column name by setting it as **Product** and click on Next

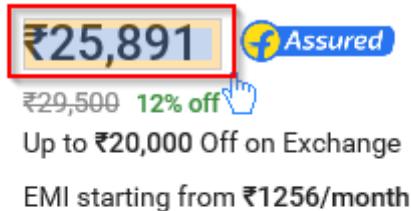


5. Click on **Extract Correlated Data** to extract the Prices of all the products

The screenshot shows the 'UI Extract Wizard' interface, specifically the 'Preview Data' step. A large list of product names is displayed in a table. The products listed are various models of Apple iPhones, including iPhone 6, 7, and SE in different colors and capacities. At the bottom of the table, there are buttons for 'Edit Data Definition', 'Maximum number of results (0 for all)', and a text input field containing '100'. Below these are several action buttons: 'Help', 'Cancel', '< Back', 'Extract Correlated Data' (which is highlighted with a red box), and 'Finish'.

Product
Apple iPhone 6 (Gold, 32 GB)
Apple iPhone 7 (Black, 32 GB)
Apple iPhone 6 (Space Grey, 32 GB)
Apple iPhone SE (Space Grey, 32 GB)
Apple iPhone SE (Rose Gold, 32 GB)
Apple iPhone 7 (Rose Gold, 32 GB)
Apple iPhone 7 (Gold, 32 GB)
Apple iPhone SE (Gold, 32 GB)
Apple iPhone 7 (Silver, 32 GB)
Apple iPhone 6s Plus (Gold, 32 GB)
Apple iPhone 6s (Rose Gold, 32 GB)
Apple iPhone 6s (Space Grey, 32 GB)
Apple iPhone 7 Plus (Rose Gold, 32 GB)
Apple iPhone 7 Plus (Black, 128 GB)
Apple iPhone SE (Silver, 32 GB)
Apple iPhone 7 Plus (Gold, 128 GB)
Apple iPhone 7 (Gold, 128 GB)
Apple iPhone 7 Plus (Rose Gold, 128 GB)
Apple iPhone 7 (Jet Black, 128 GB)
Apple iPhone 7 Plus (Jet Black, 128 GB)

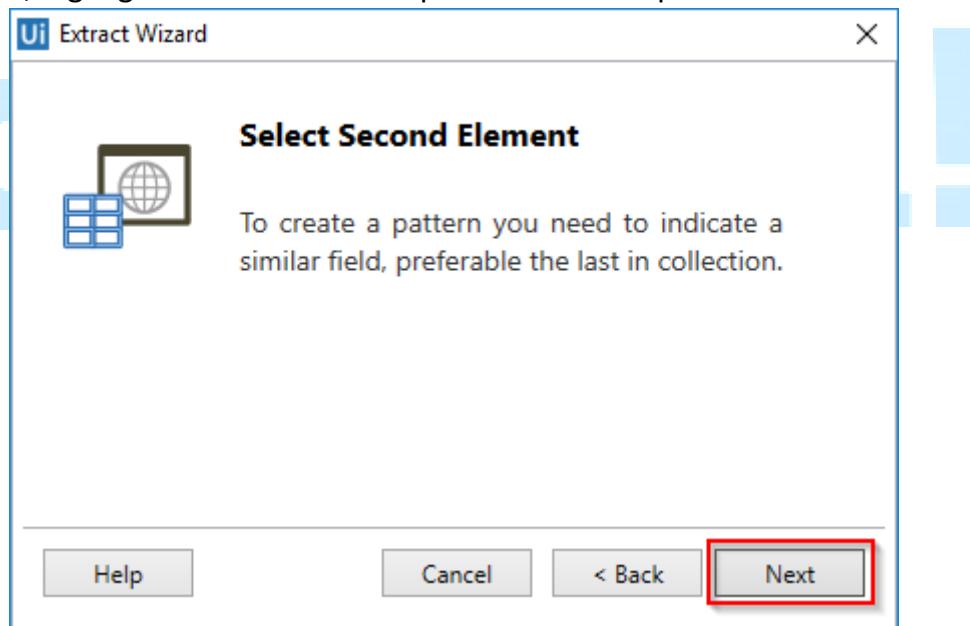
6. Now highlight the Price area of the first phone.



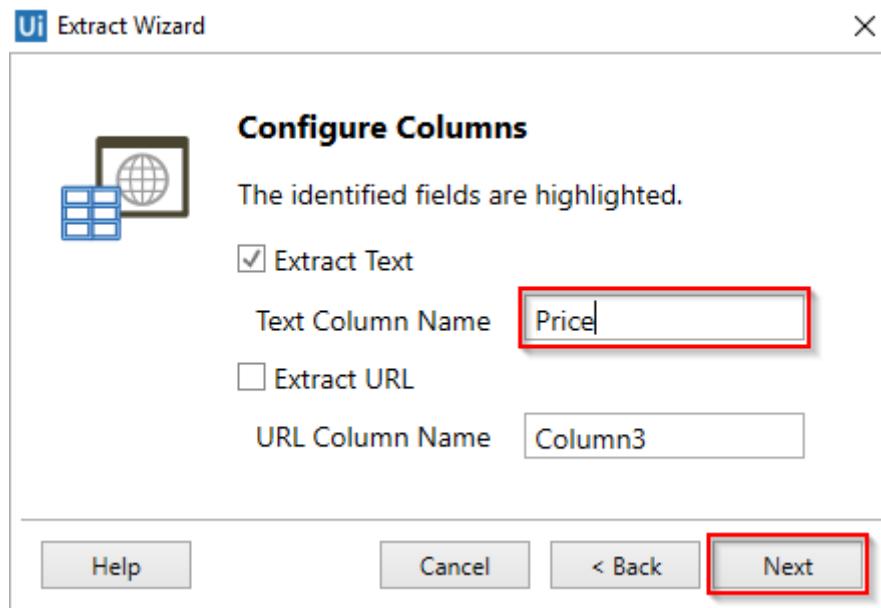
#### Offers

- Special Price

7. After this, highlight another iPhone's price to create a pattern



8. After you are done with this, configure the Column and name it as Price and click on Next

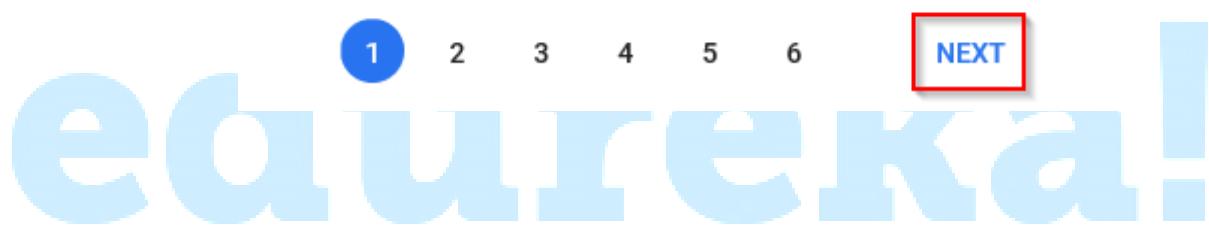
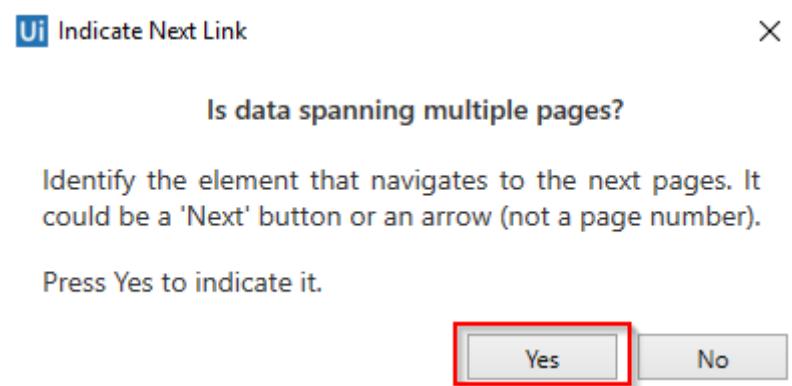


9. Click on Finish

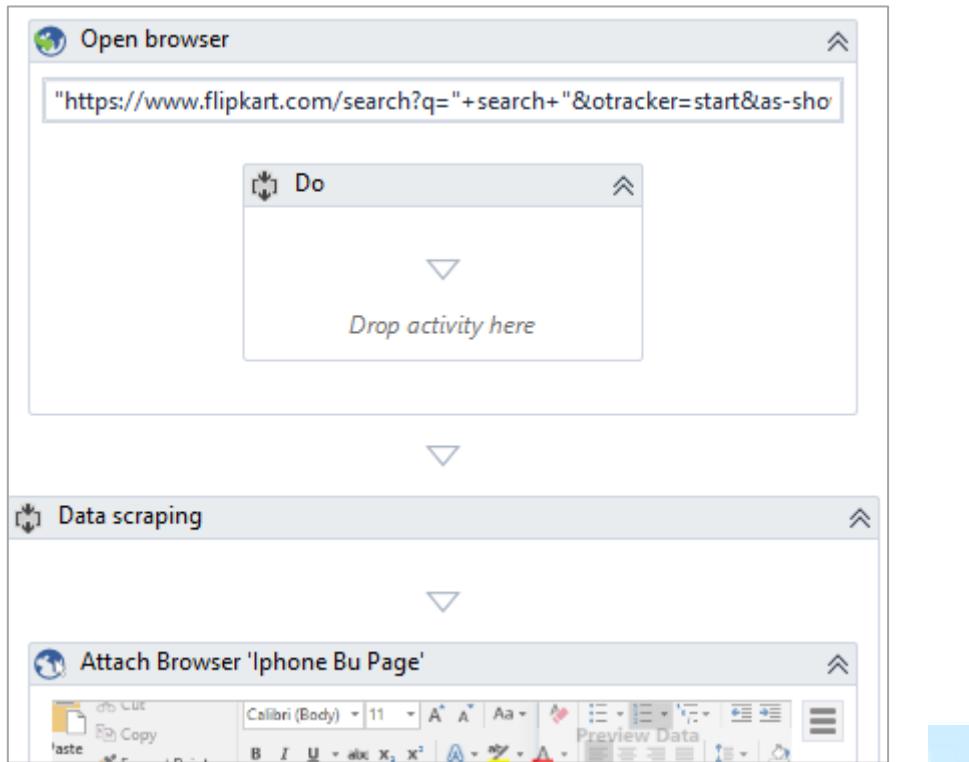
The screenshot shows the final step of the UI Extract Wizard. It displays a table of extracted data for Apple iPhone 7 and 7 Plus models. The table has two columns: 'Product' and 'Price'. Below the table are buttons for 'Edit Data Definition' and 'Maximum number of results (0 for all)' with the value '100'. At the bottom are buttons for 'Help', 'Cancel', '< Back', 'Extract Correlated Data', and 'Finish', with 'Finish' being the one highlighted by a red box.

Apple iPhone 7 Plus (Gold, 128 GB)	₹64,999
Apple iPhone 7 (Gold, 128 GB)	₹54,999
Apple iPhone 7 Plus (Rose Gold, 128 GB)	₹65,999
Apple iPhone 7 (Jet Black, 128 GB)	₹54,850
Apple iPhone 7 Plus (Jet Black, 128 GB)	₹64,999

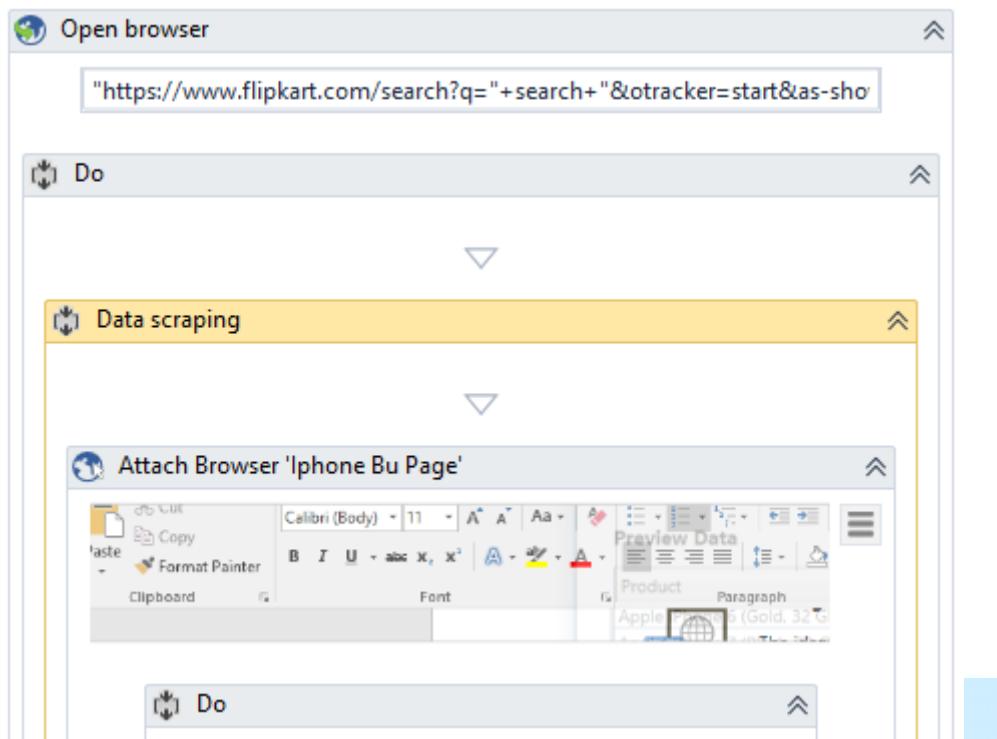
10. Once you click on Finish, it will ask you if the data spanning in multiple pages.  
Click Yes. And then select the Next Page Button on the Flipkart's Iphone display page



11. Your Sequence will look like this:



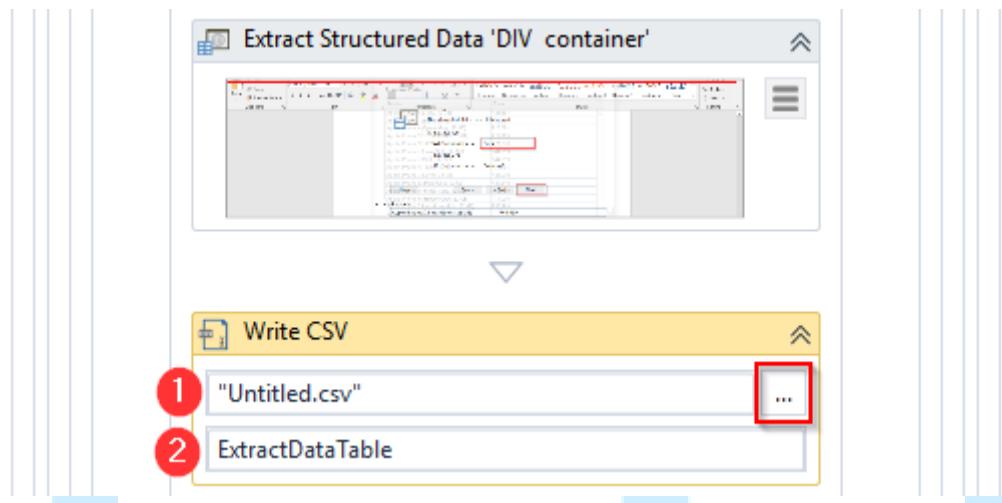
12. Move the Data Scraping Sequence inside the Do container of the Open Browser Activity



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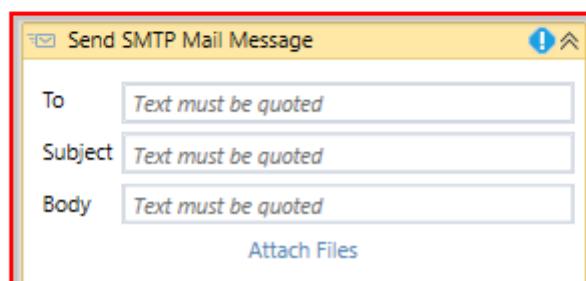
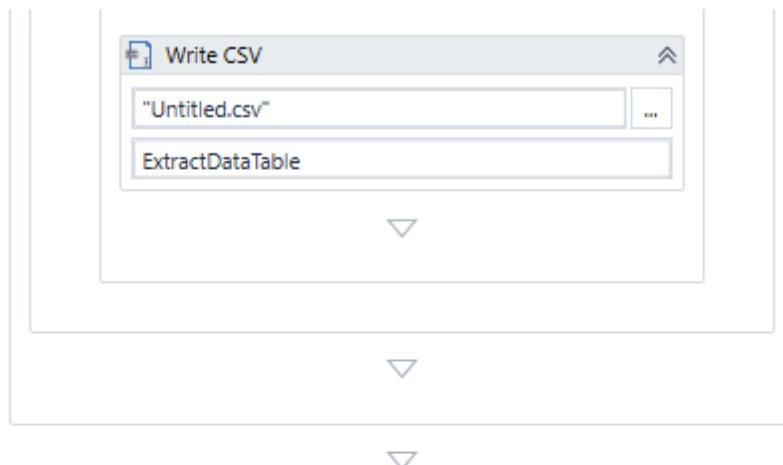
➤ **Step 7: Insert a Write CSV activity under Extract Structured Data Activity**

1. Give the path to the CSV file by clicking on Browse button, where all the extracted data will be stored
2. Set ExtractDataTable variable into the Write CSV activity

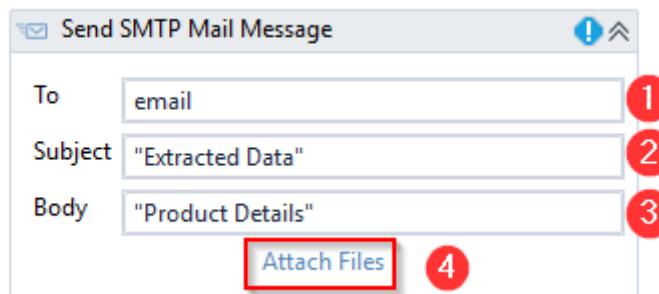


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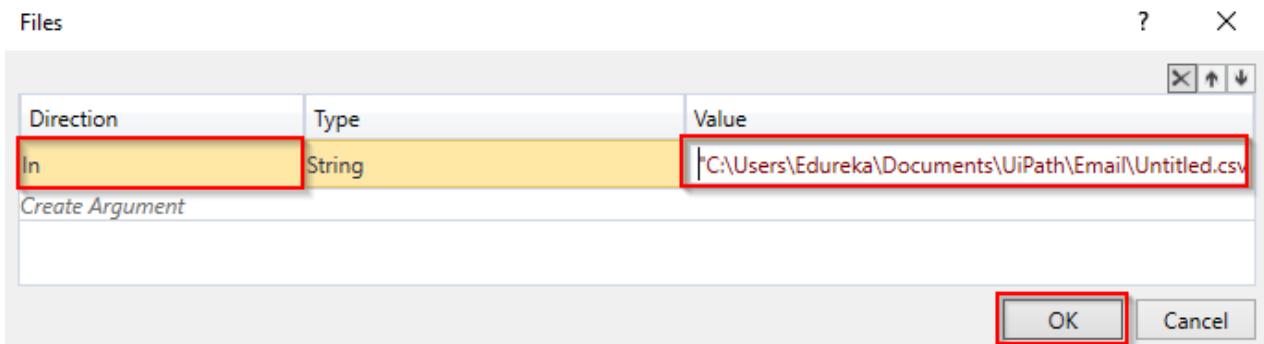
➤ Step 8: After the Data Scraping sequence, add **Send SMTP Mail Message** activity



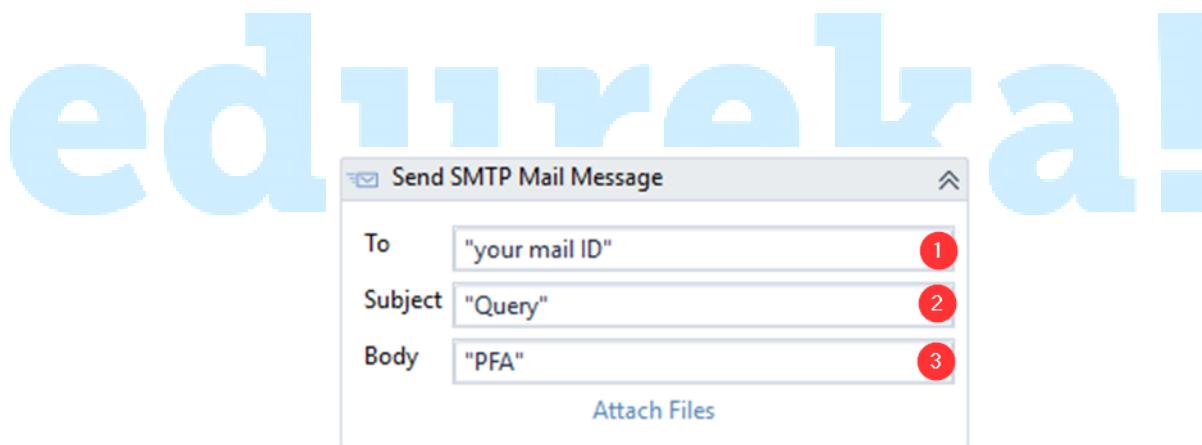
1. In the **To** field, set email variable
2. In the **Subject**, set any text you like
3. Set any text for the body
4. Click on **Attach Files** to Attach the CSV where all the extracted data will be stored



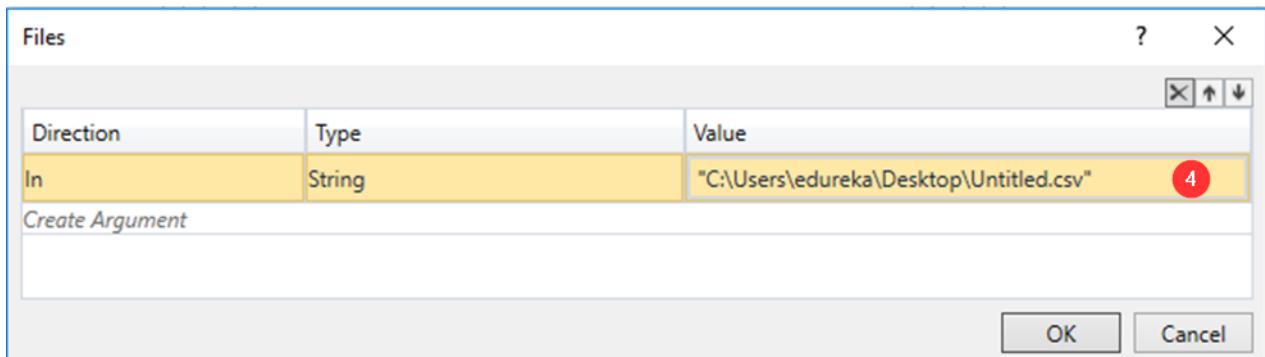
5. Create an argument and enter the complete path of the CSV file and click OK



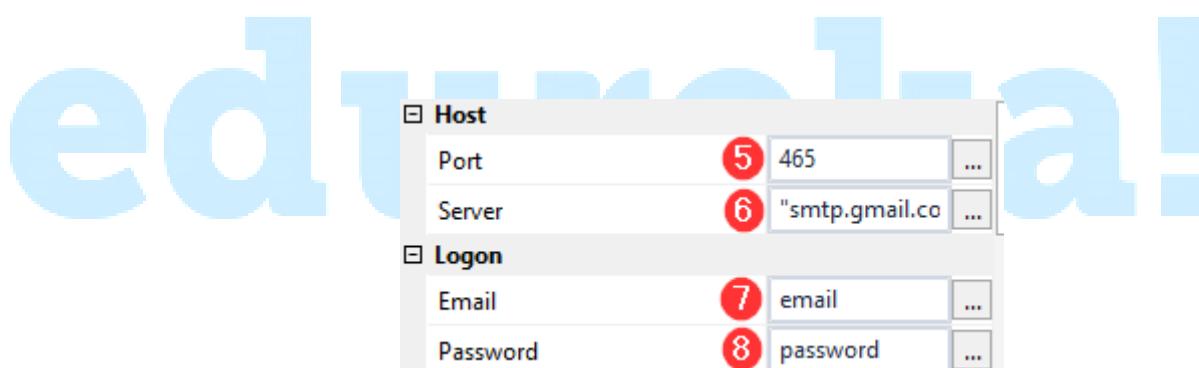
- Step 9: Under the Data Scraping sequence add Send SMTP Mail Message Activity.
1. In the **To** field, add **email** variable
  2. In the **Subject** Field, add a subject you want to give to the emails
  3. In the **Body** Field, add a Body for the email



4. Click on the **Attach Files** section, give the path to your CSV file which will have the extracted contents



5. In the **Port** property, Add: 465
6. In **Server** property, add smtp.gmail.com
7. In the **Logon email**, enter **email** variable
8. In the **Logon password**, enter **password** variable



- **Step 10:** Now **Run** the project, after the successful run, you will get a mail having the CSV file which will have all the content related to your search term.