Project Title: Data Scraping Using Blue Prism

Introduction:

Robotic Process Automation (RPA) is a technology where software robots are used to carry out task, which are otherwise traditionally done by humans. As the work is assigned to software "bots" work can be completed in a very fast and accurate manner. Many of the business process can be automated like email forwarding and generating responses of the ones received, data retrival and manuplation, data scrapping, filling details in webforms, excel automation, pdf automation etc.

Why companies go for RPA ?

1. Automations can lower the cost significantly.
2. Investments made in RPA has a lower payback time.
3. It is digital workforce, available 24x7.
4. RPA software generally has a more user friendly GUI which enebles even non-technical persons to learn and use them with minimal to No-Code at all.
5. It is flexible and highly scalable according to the needs of companies.
6. Tie required to deploy and migrate is less compared to traditional IT systems.

Top Three Players in RPA Industry:

➤ Blue Prism
➤ UiPath
➤ Automation Anywhere

Problem Statement:
Extracting Data of Samsung S21 mobile phone from Flipkart.com (Models available, Price and Phone Rating).

Required Tools:

1. Blue Prism (*Learning Edition has been used*)

Work flow:

1. As this process requires opening browser and fetching data from it, we will have to create an Object studio
2. Then we have to launch Application modular and choose and configure Browser based application including Browser to be used and URL of the site from which we want to retrive data
3. Add element(s) in Application modular, i.e the Data field(s) which we want to retrive and choose from the browser
4. In the main flow insert the Launch button to open the browser
5. Then add read nodes (three in our case, each for one data item i.e Model, Price and Rating)
6. Next add collections node to store the read data items
7. We have to set a counters by inseting a Data Items node one for starting value and another for Maximum value
8. Insert a calculation node for increasing the counter after each retrival and if it is less than maximun than retrive the data and if it has reached Maximum count than to stop retrival process.
9. Pass the retrived data into collection node for storing.

REFERENCES:

1. https://portal.blueprism.com/
2. Youtube video https://www.youtube.com/watch?v=iVYtNdCYgFo
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4. "Gartner Says Worldwide Robotic Process Automation Software Revenue to Reach Nearly $2 Billion in 2021," *www.gartner.com*, 2020. https://www.gartner.com/en/newsroom/press-releases/2020-09-21-gartner-says-worldwide-robotic-process-automation-software-revenue-to-reach-nearly-2-billion-in-2021