International Research Journal of Engineering and Technology (IRJET) e-ISSN: 2395-0056
Volume: 08 Issue: 07 | July 2021 www.irjet.net p-ISSN: 2395-0072

Robotic Process Automation

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Abstract: Robotic **process automation** is the application of technology .It is very important for business perspective like the robots understands the customer's need and do the needful task as the customer want. Rpa allows persons who works in a company to configure computer software to capture existing applications for transaction of data ,and establish communication with one or more system. The term "Robotic Process Automation" encourages us to think that it will handle the pressure of industry or people by performing all the action done by robots.it is more beneficial for whome having zero programming skills. I use this for business perspective by creating bots.a bot can do anything what you want to do by human.I found how to schedule bot on the daily basis.

Keywords: Robotic Process Automation. Robots. RPA

Introduction

RPA is an art of using software robots to interact with Software applications and IT systems to automate the jobs which was done by the employees of the any organization.it provides data security,daily data updates.it can be consider as low risk process of any type of business. A employee can feel free when robots work the job of people.it reduces the head ache of the person.A software robot can do anythink like sending mail to specific person,can sends messages also. RPA tools are more similar to graphical user interface testing tools. By using these tool we can communicate with the different activity of Rpa.

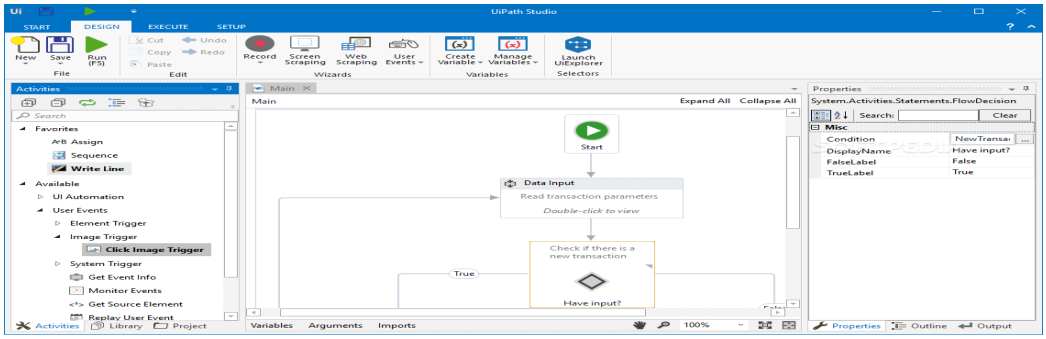
If we comapare manual process and robotic process then robotic process becomes more preferable to anyone.like day by day the technologies changes as that data storage and security get affected by hackers.it's a create a burden of task to a people to perform any task in one day for multiple people.so, rpa make more comfortable to each and every one to do the task on the time when they want.

Literature Review:

While surveying the literature on automation and RPA, various authors have presented their study, comparisons and outputs of all automation technologies. The same is studied here. This paper discusses the importance of integrating RPA with Artificial Intelligence (AI). Due to today's need to automate complex tasks, robots must be adaptive to changes in their environment. An intelligent robot must predict the cause and effect of the action phenomena. So a smart robot must be AI enabled that will differentiate itself from another machine. Authors have also discussed the use of AI integrated automation in various field such as banking sector, HR management, etc. [1]. Authors Kevin C. Moffitt, Andrea M. Rozario, and Miklos A. Vasarhelyi discuss how RPA will disrupt the traditional handbased audit model, as this process contains a lot of repetitive task and manual. This paper also focuses on the advantages of RPA in auditing as low-level, repetitive task and mid-level decisions are done by software bot itself that will lead the organisation to enhance its quality of work with same organisational structure. Furthermore, they focus on how it will change the role of auditors to be replacing perfunctory task and letting them do only higher order thinking skills which will eventually enhance the quality of work in the organisation. by the robots that separate it from other automation paradigms contained in business process reengineering. They also identify the areas of risk in RPA that are related to strategy, sourcing, tool selection, project time estimates, operations and execution, change management [2]. Delineated Analysis of RPA tools paper studied various tools used for the automation of Robotic processes and compared according to their functionality and output currently there are multiple tools being used in the market, such as UiPath, Automation Anywhere, Blue Prism; etc. The comparative study based on the services provided by the tools is studied in this paper for the selection of the most appropriate tool to be used for RPA. here we can discuss the scheduling the bot .it require no knowledge of coding .I found that we can work with multiple links to collect the data as we want.uipath provide data scraping and screen scraping functionality.as per the reading articles we found that rpa can be good for non programmer.as per the studies

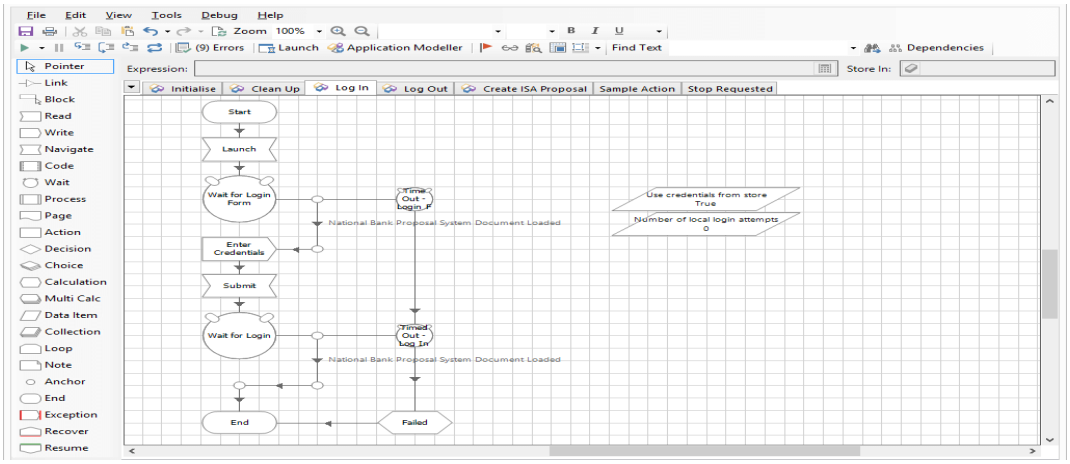
RPA tools:

Uipath: UiPath is a highly extensible Robotic Process Automation tool that helps to automate desktop or web applications.



Blue prism:

Blue Prism is an RPA Tool that provides a virtual workforce to the organizations. It helps organizations to automate manual, repetitive, and rule-based business processes in an agile and cost-effective manner.



Benefits of RPA:

1. Efficiency: The software robots are highly efficient they can operate 24/7 without taking any break.

2. Accuracy: In order to carry out data entry task, the robots can perform it in the same way as the human beings without making any mistakes.

3. Cost Reduction: The software robots help to reduce the organizations cost.

Schedule the bot in uipath:

by task scheduler:

- Take a bot in main file by invoke activity.
- Then click on publish button.
- Open notpad :

1. Type the path from "c/user/appdata/uipath/local/version of your uipath/uirobot.exe" -file "C/program data/package/your publish process".

2. Save notepad by .bat file.

    - Then schedules them in task scheduler.

CONCLUSION

RPA is a powerful automation solution that offers a variety of opportunities to improve quality, increase control, add flexibility, and unlocks a wide scope of automation possibilities. However, a clear RPA vision and strategy, feeding into the implementation approach and operating model are prerequisites for success.

RPA adoption will continue to grow in the years to come. Meanwhile more advanced robotics solutions will continue to mature and be adopted across industries. Those organizations that are successful in scaling RPA are best positioned to advance to and reap the benefits of enhanced and cognitive automation solutions.

RPA has the ability to both minimize errors and improve efficiency, and, moving forward, will be critical for creating a seamless operational environment.

Repetitive work will be accomplished more quickly and efficiently, so humans can be free to focus on more human-centric strengths such as reasoning, judgment, and emotional intelligence.

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