

# Overview of Robotic Process Automation and Tools

Narendra Pal Singh Rathore

Department of Information Technology

Acropolis Institute of Technology and Research Indore, India

**Abstract**— This paper aims to provide a brief knowledge of Robotic process automation. RPA is very high demanding technology in near future. The paper included introduction of different tools for RPA and emphasis on UiPath tool. Also cover the user interface and simple application example has covered in this paper.

**Keywords:** RPA, Automation, Uipath, Automation Anywhere, Blue Prism

## I. INTRODUCTION

Introduction: Automation means work without human interaction directly. Automation also improves accuracy and quality. The base of automation started when task are completed through Software and invented the computer system. The term Robotic process automation is not new it is defined by P. Geary. He is marketing director in Blue Prism, which is a RPA company [1]. RPA gaining popularity in mid of 2014-2015 when companies are saving, this is considerable. RPA provides a robot to operate software through software. Some of the tasks in every industry are repetitive and people do that task continuously. RPA robots reduce this task by deploy a robot in place of human to do this types of tasks. Consider an example for loan application process, in which a user is asking about types of loan, loan rate, bank name, duration, EMI, application documents and the loan agent will check the documents based on decide the types of loan which offer by bank to user. When a user is applying for loan then he received a mail from Loan Company and Loan agent will start loan process on basis of loan documents. After the checking all the documents if user are eligible for loan then Loan agent will sent a mail to user about the loan, Installment details and rate of interest. This is

a process for loan. The entire tasks complete one Loan agent to approve or disapprove the loan applications. Suppose in a day company will receive 10000 applications for loan then company require huge numbers of loan agent to fulfill the requirements on time. In place of Loan agent if we can deploy robots for doing same task then it will be very beneficial for company in terms of saving.

Several applications are provided by the RPA.

- 1) SAP work order automate
- 2) Downloading students result from university website
- 3) Ticket booking from IRCTC
- 4) Fill personal details in Mobile sell

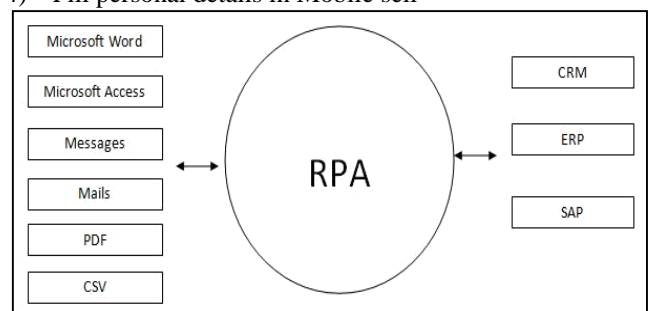


Fig. 1: Application area of RPA [2].

## II. RPA TOOLS

A number of RPA tools available in market place which is perform transition a process done by manually by human to an automate process. Uipath is the market leader in enterprise Robotic Process Automation. Other vendors are, for example, Automation Anywhere, Workfusion, Visual Cron, BluePrism etc. According Edureka.co [3] following comparison of RPA Tools are us under.

	Free Version Available/ Not	Pricing	Usability	Selected Partners	Global Coverage
Another Monday	-	-	-	KPMG, PwC	Europe
Arago	-	-	-	-	-
Automation Anywhere	-	Per Process	Drag & Drop, Macro Recording	Accenture, Capgemini, Cognizant, Deloitte	Global
BluePrism	-	Per Bot	Drag & Drop	Accenture, Capgemini, Deloitte, EY, IBM	
Contextor	-	-	-	Accenture, Capgemini, EY, IBM	EMEA & North America
Jidoka	-	-	-	-	-
Kofax	-	-	-	Accenture, IBM	Global
Kryon Systems	-	-	-	-	-
NICE Systems	-	-	-	Accenture, IBM, Cognizant	Global
Pega	-	-	-	Accenture, Capgemini, Cognizant, EY	Global
Redwood Software	-	-	-	Accenture, Capgemini, Deloitte	-
UiPath	UiPath Community Edition	per bot	Drag & Drop, Macro Recording	Accenture, Capgemini, Cognizant, Deloitte, EY, IBM, PwC	Global

Visual Cron	45 day free trial	per server	Drag & Drop	–	–
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Table 1: Comparatively Study of RPA Tools

### III. USER INTERFACE OF UIPATH

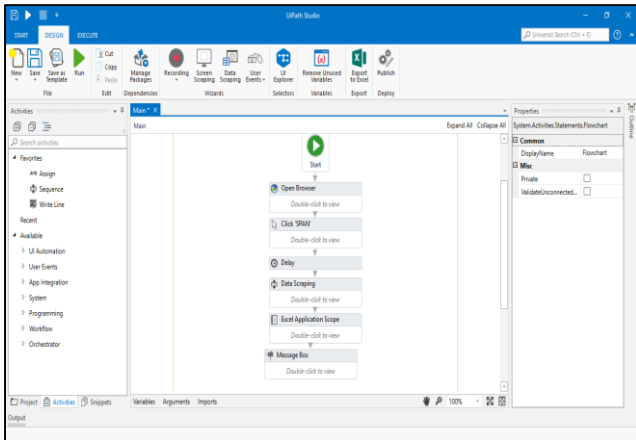


Fig. 2: Interface UiPath

In UiPath RPA tool a UiPath studio is available in this we can make flow charts and it's provide a number of Activity control. The main advantage of UiPath studio is GUI which is providing. In UiPath studio there is no need write code it is generated automatically.

### IV. APPLICATION EXAMPLE

Application automation in UiPath for searches any keyword in browser. For any keyword search in browser following steps are performed manually:

- 1) Open Browser as per user choice like chrome, internet explorer etc.
- 2) Then type URL for open search engine like www.google.com.
- 3) After opened search engine type the specified keyword for search.
- 4) After that click on search button.

It is the simple process which is mainly used for performing search a specific keyword. Now this process can be automate in UiPath workflow as follows:

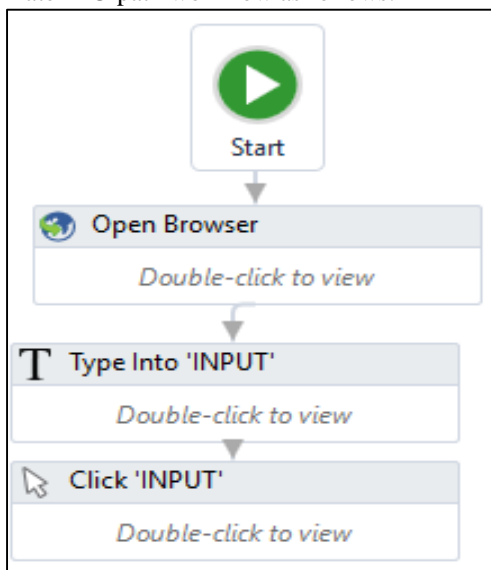


Fig. 3: Search Keyword

UiPath studio is very easy to learn because of its simplicity.

### V. CONCLUSIONS

RPA is very popular in across the world. RPA is relatively new in globe. The aim of this paper is to provide just an overview of RPA, tools of RPA and simple application in UiPath studio. This paper included a comparatively study of RPA tools available in market place. Get more understanding of RPA do some projects implementation on RPA tools.

### REFERENCES

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