

Robotic Process Automation

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Abstract - Robotic Process Automation is one of the new Technology booming in the industry. It has many benefits in the organization, industry etc. Many tools are available to process robotic automation for better accuracy, higher customer satisfaction, cost saving, create software applications etc. Many RPA vendors provide services for industry. RPA contain many applications to implement. Some of the companies implemented. The main aim of RPA is that to automating manual tasks within applications like excel. , hyper automation. For example AURA is a digital extension of human automation application.

Key Words: HFS, Kofax, CIO, OCR, bots, NEVA

1. INTRODUCTION (Size 11, Times New roman)

AURA the world's first US Patented software automation tool. Its technology that makes it easy to deploy, build and manage software robots emulate humans actions interacting with digital systems and software's. It does wide range of defined actions like it understand what's on the screen, complete right keystrokes, navigate systems, identify and extract data. It does faster and more consistently than humans. Without the need to get up and stretch or take a coffee break. RPA is applied on Financial services like Banks, Insurance, Accounting, Healthcare, Human Resources, Supply Chain Management, Accounting, Healthcare Industry, Telecommunications, Banking, Insurance, Manufacturing, Retail , Education BPO, Logistics etc.

Real-World Examples of RPA



2. RPA Functions and Tools

There are many RPA Tools to use. UiPath, Blue Prism, Pega, Kofax, Kyron, Visual Cron, Softomotive Contextor. The general functions of RPA are:

- Collecting data from different websites.
- Integration with existing tools.

- Processing data which includes calculations, data extractions etc.

The Real World Examples of RPA are

In Logistics: Scheduling and Shipment Tracking, Invoice Management, Communication Warehousing Operations, Managing Freight, Inventory. It provides for users to eliminate errors, Increase Efficiency, Enhances customer satisfaction

In Banking: Customer Service, Compliance, Credit Card Processing, Fraud Detection, KYC Process, Mortgage Processing, General Ledger, Report Automation Its benefits are Scalability, Improved Functional efficiency, Cost-effectiveness, Agile Business, Quick implementation with no coding.

In Education: Enrollment Process. Schedule Meetings, Track Attendance, Fee Management, Monitoring students' Performance. The Advantages are Better Management, Increased Productivity, Low Expenditure, Improved work execution.

In Telecommunication: Network Management, Billing, Debt Collection, Customer onboarding and off boarding, Improve average user revenue. The Benefits are Scalability, Cost-saving, Data flow, Productivity and speed, Better accuracy, customer satisfaction.

In Healthcare: Scheduling Patient appointments, Management of Claims, Regulatory Compliance, Ordering Drugs and other hospital stationaries. Benefits are Elimination of Errors, Increased appointment turnout, Better Patient experience, improved employee satisfaction.

In Insurance: The RPA helps for Claim Registration and processing, Underwriting, Regulatory compliance, Process and business analytics. Its Benefits are Find the right Process, Define Vision and Strategy.

In Accounting: Scalability, Efficiency, Innovation in data, Address compliance issues. The Benefits are Order to Cash, Procure to Pay, and Record to Report, Financial close.

In Real Estate: Improves productivity in the office, Enhance Customer engagement, maintains the flow of real estate business. The Benefits are Tenant onboarding, payment Reminder, Portfolio Management, Client Management,

In BPO: Low Cost, Enhance Security and control, Heavy Data Exchange, Modernized solution. The benefits are Data entry and validation, Reconciliation, File and data manipulation.

Keysights Eggplant : It can help to Test Faster and efficiently to ensure on time delivery. It reduce IT costs while improving quality. Automate repetitive tasks to reduce manual errors. Reduce Time-to-market. It enable reliable and discreet automation. Deliver consistent experience across all devices.

Rapise: Purpose for Web, Mobile, Desktop test automation. It help to manage tests spanning multiple technologies at once.

UiPath: It's a global software company based in New York City. It provides Better Customer Experience, Highly Secure, Cost effective, High Efficiency.

Automation Anywhere: Its software based company in California, US. It Provides Bank-grade security. Security through authentication, encryption and credentials. Real time reports and analytics. Provides platform independence.

Pega: It is a Business Process Management tool for medium and large. Used on Desktop Servers. It provides any cloud based solutions or services. In Windows, Linux, and Mac OS it works..

NICE: Its RPA tool is named as NEVA- Nice Employee Virtual Attendant. Its smart tool helps the employees in repetitive tasks.(Refer Fig-1)



Fig -1: NICE RPA Tool

Table -1: The Following table illustrates the average salary of RPA developers in the US.

Positions	Salary(per year)
Developer	\$97.631
Junior Developer	\$61.024
Business Process Analyst	\$73.380
Senior Developer	\$108.325
Lead Developer	\$130.447

3. CONCLUSIONS

RPA tools are the perfect solution for automating mundane and repetitive manual tasks. Employees can focus more on engaging activities. Automating increases productivity and reduces costs associated with labor manual work. It offers a variety of opportunities to improve quality, increase control, add flexibility, unlocks a wide scope of automation possibilities. RPA adoption will continue to mature and be adopted across industries.

ACKNOWLEDGEMENT

RPA made us automation easy in the industry.

REFERENCES

1. https://www.softwaretestinghelp.com/robotic-process-automation-tools/#2_Inflextra_Rapise
2. <https://uipath.com>
3. <https://www.sphinx-solution.com/blog/top-rpa-tools-and-their-comparison/>
4. <https://www.javatpoint.com/rpa-jobs-and-future>
5. <https://www.compact.nl/articles/robotic-process-automation-how-to-move-on-from-the-proof-of-concept-phase/>

BIOGRAPHIES

Ms. Bharati Ambali. Presently working as Lecturer in Computer science department Belagavi. I know all the language such as C, C++, Java, Advanced Java, Python, C#, HTML , CSS , Javascript, VBscript, Adadvanced Excel, Software Testing with Selenium etc. I am interested in self learning.