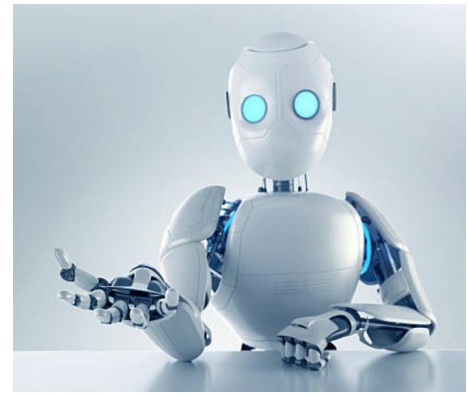


Robotic Process Automation



Image courtesy: [theverge.com](https://www.theverge.com)

Introduction



Robots: Entities that
mimic human actions

Process: Sequence of
steps which lead to a
meaningful activity.

Automation:
Process is performed
with minimal human
assistance

Continued...

- Independent of Domain and can be customised as per requirements
- Interacts with the existing IT architecture with no complex system integration required
- Programatically automating existing interfaces and taking the burden of maintaining them
- Advanced technology that automates huge quantities of redundant tasks

Applications of RPA

- Financial Services
- Accounting
- HR Administration
- Healthcare
- Customer service



courtesy:Edureka

Conventional Automation and RPA:

Parameter	Conventional Automation	RPA
What does it reduce?	<i>Reduces execution time</i>	<i>Reduces the number of people working</i>
What does it automate?	<i>Automates repetitive tasks</i>	<i>Automates repetitive business process</i>
Programming knowledge	<i>Programming knowledge is required for automating tasks</i>	<i>Programming knowledge is mostly not needed, it is rules based which can be written in common language</i>
Software environment	<i>Limited software environment.</i>	<i>A wide range of software environments.</i>

Why RPA?

- Not all business processes are smart and intelligent
- Mundane and repetitive tasks are time consuming
- With the current automation methods, it takes massive IT transformation plans and implementation processes to make a transition to it
- People can focus on tasks requiring emotional intelligence, reasoning, judgement and interactions with the customers.

Benefits/Limitations

Benefits:

- Reduced Cost
- Improved Quality Process
- Lower operational risk
- Does not replace existing IT systems

Limitations:

- High Initial Investments
- Need experts with prior knowledge of RPA

How RPA can support in processes

Current process: Humans work on interpretation and decision making, but also on tasks related to collecting, copying, checking of data files et cetera.



Future process: Humans and robots work together. Robots take care of repetitive data related tasks. Humans are involved in more complex tasks such as interpretation and decision making.



Tools

- Blue Prism - paid tool developed by David Moss
- UI Path - Free community edition available and complete course on website
- Assist Edge - developed by EdgeVerve available as a community edition for 180 days
- Automation Anywhere - Free trial version for 30 days, needs programming skills

And many more...

How is RPA used in QA Process

- RPA acts a powerful tool for testers and business users.
- Migrating tests from excel sheets to management tools
- One of the tool used is LeapTest from LeapWork - DIY test automation tool

Myths About RPA

- Robots will replace humans
- RPA software robots are 100% accurate.

Thank You!

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