ROBOTIC PROCESS AUTOMATION (RPA)

RPA is an emerging form of business process automation technology; Frees employees to focus on higher-value work by automating repetitive human tasks

What is RPA?

Robotic Process Automation enables you with tools to create your own software robots to automate any business process. It's as simple and powerful as it sounds! They are essentially your digital workforce.They can interact with any system or application the same way you do.

Digital workforce deployment is achieved by the implementation of RPA. Primarily to add value by creating (partially or completely) automated meta-processes that control one or more existing applications. Secondly to automate the interactions with those applications and thus enable the successful operation of the process governed by Process Oriented Architecture (POA) and Business Process Management (BPM). Successful RPA is a pre-requisite to exploiting other technologies and approaches such as artificial intelligence.

Historic Evolution

As a form of automation, the same concept has been around for a long time in the form of screen scraping but RPA is considered to be a significant technological evolution of this technique in the sense that new software platforms are emerging which are sufficiently mature, resilient, scalable and reliable to make this approach viable for use in large enterprises

Deployment

The hosting of RPA services also aligns with the metaphor of a software robot, with each robotic instance having its own virtual workstation, much like a human worker. The robot uses keyboard and mouse controls to take actions and execute automations. Normally all of these actions take place in a virtual environment and not on screen; the robot does not need a physical screen to operate, rather it interprets the screen display electronically.

Business Benefits?

Enterprise Benefit

Impact on employment

- Most operations groups adopting RPA have promised their employees that automation would not result in layoffs.
- Instead, workers have been redeployed to do more interesting work.
- Academic study highlighted that knowledge workers did not feel threatened by automation: they embraced it and viewed the robots as team-mates.
  [ref : Harvard Business Review]

Impact on Society

- Up to 35% of all jobs may have been automated by 2035.
- RPA is expected to drive a new wave of productivity and efficiency gains in the global labour market.
- Technological advancements and improvements around artificial intelligence technologies are making it easier for businesses to take advantage of the benefits of RPA without dedicating a large budget for development

Business Benefit

About Us

TechniSMART Solutions Ltd,UK is a business transformation enabling partner serving the global market to drive enterprise-wide change in business process, using 4Gen solutions.

Use Case

Manufacturing

- Corporate billing reports
- Freight email triage
- Supply chain management operations
- Sales order system
- Paper mill reporting

Traditional Finance Area

- Invoice processing , billing ,
- Debit & credit note generation,
- Customer payment reminder
- Bank reconciliation,
- E way bill generations ,
- Client and subcontractor bill validation

Most common Areas

- Warranty processing
- Dispatch order in bulk warehouse
- Challenges in Tender Synopis
  Interpretation of GCC and SCC and risk profiling
  Technical specifications interpretation
  Cross references clause interpretation and implication
  Search relevant resource

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