# Introduction: RPA

Use Cases:

* Organization –
* Employee On-Boarding
* Invoice Auto Scan, Data Correction & Bug-Free Processing
* Auto Emails/Reminder at Set Time
* Health Care – Appointments thru Phone Bot, Patient’s Data Entry, Claims to Process, Billing, etc.
* Retail**:** Receiving Orders, Sending Notifications, Shipping Products, Tracking Shipments, etc.
* Banking: Uses RPA for more efficiency in work, for accuracy in data, and for the security of data.
* Credit Card Fraud Detection System – This will auto lock your card in case your card is accesses from unknown location defined by you, unusual amount of Transaction, wrong PIN entered thrice etc.
* Loan Initiation - Scan Given Information, Input Data, Validating Key Information and Process Further
* Running Defined Business Rules Based on Input
* Insurance: Insurance companies use RPA for managing the work processes, entering customer’s data, and for applications.
* Manufacturing: For the manufacturing industry, RPA tools help in Supply Chain procedures. It helps with the billing of Materials, Administration, Customer services & support, Reporting, Data migration, etc.
* Others
* Email Processing – E.g. Send Email With Subject ‘iPhone’. RPA System will read this Subject, Search all about ‘iPhone’ and sends details you as another Email.

Advantages:

* Reduced Cost
* High Operational Efficiency
* High Speed
* Zero or Reduced Error
* High Consistency
* Reduced Risk

Types of Robotic Process Automation

* **Attended automation:** These tools will require human intervention while performing automation processes.
* **Unattended automation:** These tools are intelligent and have decision-making capabilities.
* **Hybrid RPA:** These tools will have combined capabilities of both attended and unattended automation tools.

Top Tools Used: <https://www.softwaretestinghelp.com/robotic-process-automation-tools/>

1. Blueprism
2. UI Path
3. Automation Anywhere
4. Pega

Few More:

1. Inflectra Rapise
2. Nice Systems
3. Kofax
4. Kryon
5. Softomotive
6. Visual Cron

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ****Features**** | Blue Prism | [Uipath](https://www.uipath.com/) | [Automation Anywhere](https://www.automationanywhere.com/) | [Pega](https://www.pega.com/) |
| ****Best suited for Industry type**** | Core RPA Capabilities | Core RPA Capabilities | Core RPA Capabilities | BPM |
| ****Is recorder available?**** | No. | Yes | Yes | --- |
| ****Platform independence**** | Supports any platform. | Yes. Supports Citrix. | Yes. On-premise and in the cloud. | Desktop Servers |
| ****User-friendliness**** | Yes. Developers | Yes. Even for non-developers | Yes. For anyone. | Yes. It supports low-code development. |
| ****Cost**** | $ 15k -18k Annual | Free | Contact them for pricing details. | Start from $ 200/month |
| ****Scalability**** | -- | Can handle any process, in any number irrespective of its complexity | Yes. Scalable. | Scalable to Enterprise level. |
| ****Architecture**** | Client Server Architecture | Web Based Architecture | Client Server Architecture | It runs on desktop/server. No database required. |
| ****OS Support**** | Windows Mac Web-based | Windows Mac Web-based | Windows Mac Web-based | Windows Linux Mac Web-based |
| ****Security**** | Security provided for network and software credentials | Provides security by managing credentials, providing encryption and access controls based on the role. | Provides Bank-grade security.  Provides security through authentication, encryption, and credentials. |  |



