## ROBOTIC AUTOMATION PROCESS

In today’s era where EQ is more preferred than IQ, there is a heavy need of employees who can do human jobs instead of some monotonous robot jobs. People lose interested in low value adding jobs which increases chances of error, but not robots!

To save employees from doing uninteresting jobs and getting these jobs done smoothly in a much lesser time the technology that comes in picture is Robotic Process Automation. As the name suggests it is the automation of most of the robotic process happening in any enterprise.

Robotic Process Automation has proven itself as a big asset and has great advantages like:

1. Reducing human effort and errors.
2. Saving time along with boosting productivity, accuracy, and consistency.
3. Enhancing business analytics.

**Let’s see how different RPA is from Automation:**

* Earlier we used to calculate numbers manually. Gradually, the complexity of the problems increased; also manual calculations took a lot of time. Therefore, in 1966, Texas Instruments invented the hand-held pocket calculator which automated calculations. But, we still had to feed these numbers manually in the calculator.

RPA replaces Human Intervention by leveraging Software

Robots (popularly known as Bots)

* Let’s see a typical Data Entry Employee’s task: A data entry employee repeatedly gets the data from different sources and aggregates them in an Excel file. Replacing the Data Entry Employee with a bot. Bot mimics all the tasks done by the Data Entry employee.
* In earlier times, an Admin used to segregate the invoices based on the type of automobile it is related to. After this, it was forwarded to the workers, who used to process it further. It was a time-consuming task for the Admin, as there were thousands of invoices to categorize every day. There was also a probability, that the Admin will make mistakes in categorizing the invoices. Companies decided to automate the process of categorization of invoices by replacing the Admin with an Automated System. Even after automating this process, invoice processing was still done manually. Then the company implemented RPA to automate the invoice processing and completely eliminated the human intervention. Though automation could segregate the invoices by the reading the subject of the emails, we still needed human force to read these scanned invoices.

Hence we needed an automation solution which could read like a human.

**There are some major benefits of RPA, such as**

* RPA systems mimic human behavior with no change to the existing infrastructure.
* It does not integrate with the underlying software; it rather uses the software’s user interface to operate on it.
* Solutions can be developed faster since they are not dependent on the underlying software.
* An RPA automation results in cost reduction since it reduces the need of human workforce significantly to do the same work.

**How RPA works?**

Imagine a scenario, where you want to get the list of names and prices of all the phones of a particular brand from a website. This is how a typical automation process should look like:

Identify the elements -> Define the structure -> Create the result file -> Run the automation bot.

**Identify the Elements**

1. Go to the e-commerce site
2. Search for the phone brand
3. Select the elements you want to extract
4. Example: Name and Price

**Define the Structure**

1. Define the structure of the CSV file containing
2. Name and Price column
3. These columns will be populated automatically after the automation process

**Create the Result File**

* 1. Give a name to the CSV file where the data will be stored
  2. Automation will store the extracted data in the specified CSV file

**Run the Bot**

1. Run the automation from your RPA tool.
2. It will populate all the extracted data into the CSV file.

To understand the untapped potential of this emerging technology, let's go through some of the good picked articles:

1. <https://www.guru99.com/robotic-process-automation-tutorial.html>
2. <https://www.askeygeek.com/robotic-process-automation-rpa-what-why-how-all-you-need-to-know/>
3. <https://medium.com/freetraining/uipath-training-the-only-rpa-tutorial-you-need-230b9ca02892>
4. <https://mindmajix.com/rpa>

<https://www.nice.com/websites/rpa/assets/robotic_process_automation_for_dummies.pdf> is an amazing book for beginners to understand the Robotic process automation domain.

Got anything to share about Robotic Process Automation? Let us know in the comments below.