

# RPA (UiPath)

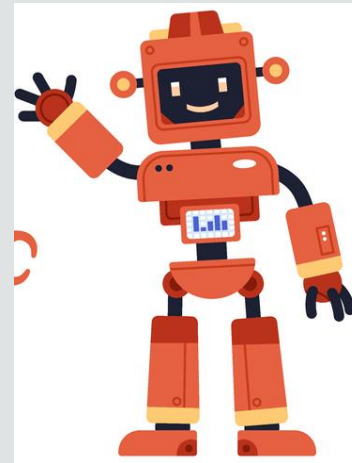
1<sup>st</sup> Course – 09/10/2023

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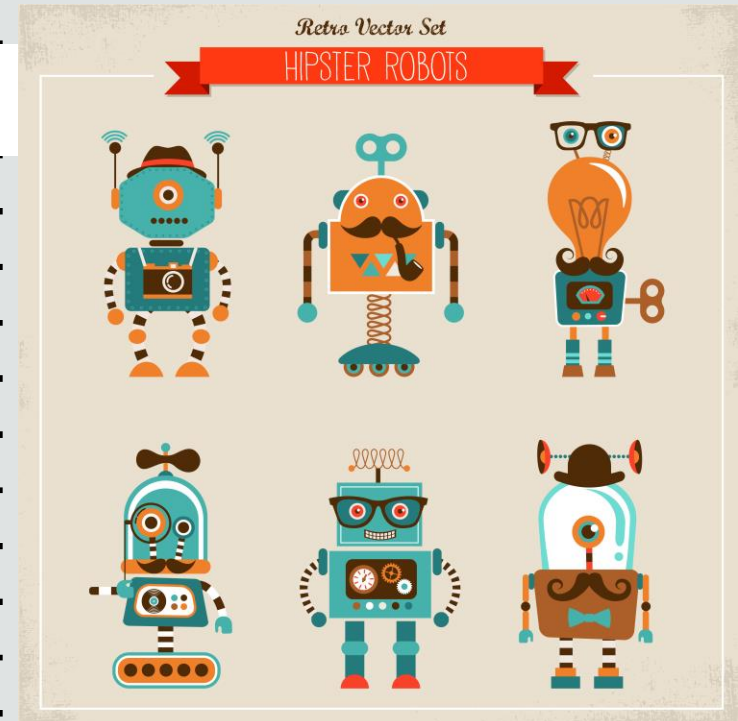
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# RPA Kickoff

To join, go to:  
[ahaslides.com/ANHDQ](https://ahaslides.com/ANHDQ)



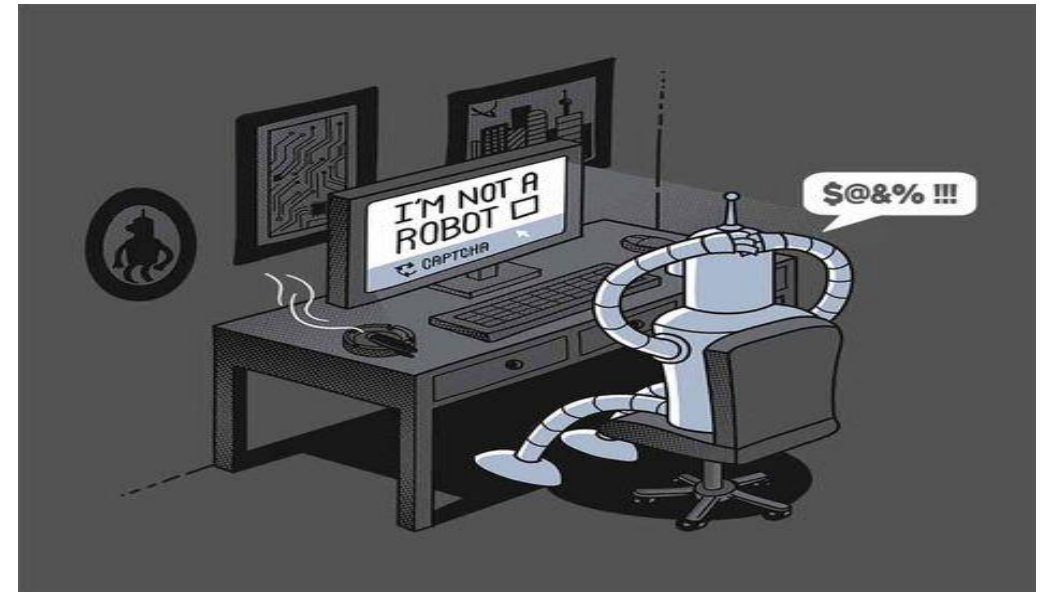
# Types of robots

- **Attended bots**

- run under human supervision and, because of this, are best suited for use with smaller, more fragmented tasks;
- human input is required at some point in the process

- **Unattended bot**

- are intended for more complex and highly repetitive tasks, usually needing to be performed in batches, that can be decided based upon a predefined rule;
- additionally, unattended automations are suited to processes that perform privileged operations, requiring elevated permissions and credentials;
- do not require human interaction.



# What RPA can automate?



Rule based processes

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Repetitive processes

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Rule based processes



Repetitive processes



Standardized input data

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Rule based processes



High volume processes



Repetitive processes



Standardized input data

# What RPA can automate?



Rule based processes



High volume processes



Repetitive processes



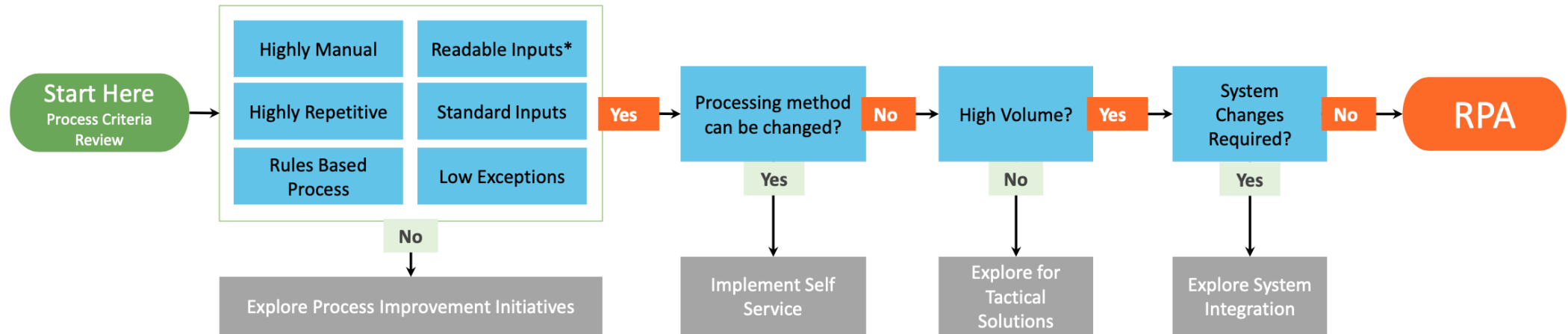
Stable processes



Standardized input data



**1 Identify a process that qualifies to the below criteria / characteristics:**



**2 Evaluating alternative solutions:**

- a) *e.g. organizational, sequential improvement*
- b) *e.g. configurable change of options*
- c) *e.g. can tasks be assigned differently*
- d) *e.g. enhancing system functionality*

**3 Robotic Process Automation solution**

*\*readable input type = excel, word, email, XML, PDFs etc.  
Non-readable input type: scanned image with no OCR*

# Automation Complexity

NO RPA

SEMI-AUTOMATION

HIGH-COST RPA

ZERO-TOUCH  
AUTOMATION

Processes where change is frequent, the system environment is volatile, and multiple manual (even non-digital) actions are required

# Automation Complexity

NO RPA

SEMI-AUTOMATION

HIGH-COST RPA

ZERO-TOUCH  
AUTOMATION

Processes that can be broken down into steps that can be clearly automated, and steps that need to stay manual (such as validations or usage of physical security tokens)

# Automation Complexity

NO RPA

SEMI-AUTOMATION

HIGH-COST RPA

ZERO-TOUCH  
AUTOMATION

Processes that are rather digital and can be automated, but use some technologies that are complex (such as OCR) or require advanced programming skills

# Automation Complexity

NO RPA	SEMI-AUTOMATION	HIGH-COST RPA	ZERO-TOUCH AUTOMATION
Processes that are digital and involve a highly static system and process environment, so that they can be easily broken into instructions and simple triggers can be defined			

**Consider the following 3 processes. What would be your first, second and third choice for automation from the point of view of effectiveness and efficiency (low effort and costs, high benefits)?**

≡ Second choice

Translating customer emails from different languages to English

≡ Third choice

Password reset process triggered by email and using a dedicated web application

≡ First choice

Reading and preparing for payment handwritten invoices

**Consider the following 3 processes. What would be your first, second and third choice for automation from the point of view of effectiveness and efficiency (low effort and costs, high benefits)?**



First choice

Translating customer emails from different languages to English



Second choice

Password reset process triggered by email and using a dedicated web application



Third choice

Reading and preparing for payment handwritten invoices

# RPA Team



**RPA Developer**



**Solution Architect**



**Business Analyst**



**Implementation  
Manager**



**Infrastructure  
Engineer**



**RPA Support**



# Process optimization

Organizations are faced every day with the challenge to **produce more spending less. A suboptimal process will never deliver the most efficient result possible.**

## 1. Identify

Think about a process in a company that is costing them more than it should or inducing client's dissatisfaction or even stress between employees.

- What is the final purpose of the process? What should the outcome be?
- Where does the process start and ends?
- What activities are part of the process, passing through the stages?
- Which departments and people are involved?
- Which information travels between steps?

At this point, we are asking what is the process, and not how to do it.

# Process optimization

## 2. Rethink

It is the time to map the process, worrying about how to execute each step, about how the process flows, about what is process optimization to this process.

- Is there a better way to perform this process?
- How exactly is this process conducted?
- How much paper (for example) does this process use?
- How long does the process take to be finished?
- How much time is lost in rework and mistake correction?
- Where does the process stall?

Having a micro and macro vision is important. Each detail is important, since the way an email is written until the perception of what the client wants.

Compare the answers to this questions to the ones in the first item, and maybe you will find out that tasks that seemed crucial are expendable.

# Process optimization

## 3. Automate

Automate the processes that are proved to work and spread them through the company to see the results in costs reduction, mistake prevention, wastage cut and production increase.

## 4. Monitor

Through the entire process optimization, monitor, monitor, and monitor. After the automation, you will sure find new improvement points and bottlenecks. Identify them, rethink the process, implement it and automate it.

As all the processes in business process management, this is a cyclical project.



How the customer explained it



How the project manager understood it



How the designer sketched it



How the programmer wrote it



What the Beta-Tester got



How the consultant described it



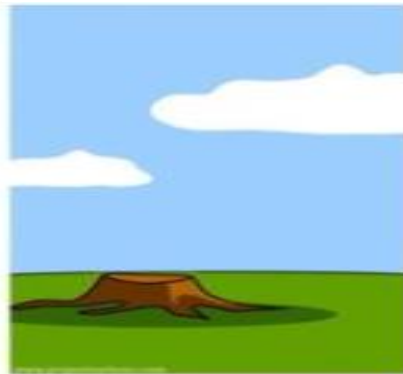
How the project was documented



What was installed at the customer



What the client was charged for



How it got maintained



How Marketing is advertising it



What the customer really needed

# RPA course evaluation

- Based on a **project** (as a team (3-5 students))
- The project aka **The Robot** built by you will be evaluated in the last week of school.
- **Checkpoint: 20<sup>th</sup> November (mandatory)**– the students will send the robot proposal (in Teams or via Email) and check with the teacher if the idea meets the requirements.
- **Checkpoint: 8<sup>th</sup> January (optional)**– the students will submit a first version of the robot (in Teams or via Email) in order to receive feedback from the teacher (feedback that is expected to be implemented until Evaluation Day)
- **Evaluation Day:** every team will have a 15 minutes time slot to present the problem that the robot is solving, to show the robot in action and to answer the possible questions from the teacher and/or colleagues.
- **Project requirements:** the grading scale can be found in Teams, Files section.

