Robotic Process Automation (RPA)

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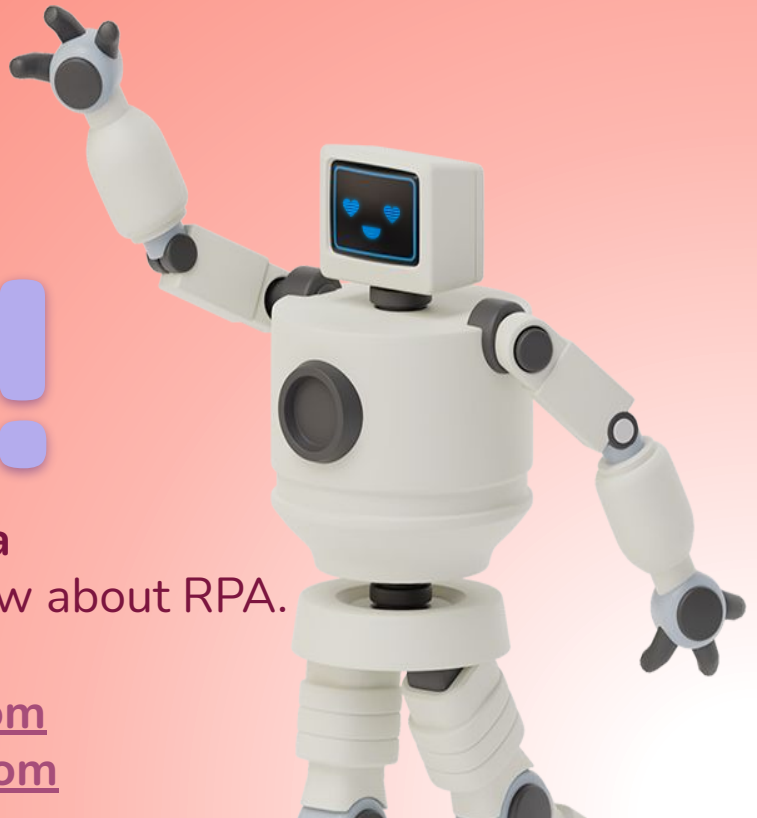
The Girl Code, Rajasthan

Hello!



We are Vidhu and Vanshika

We are here to tell you all there is to know about RPA.

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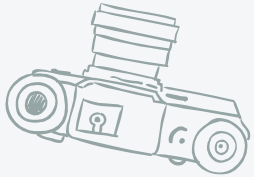
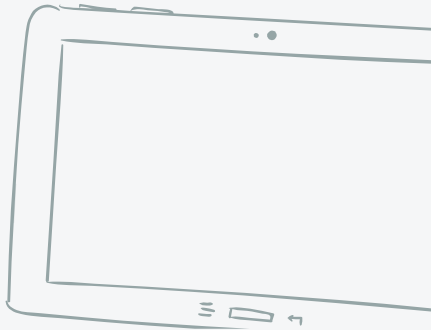
1.

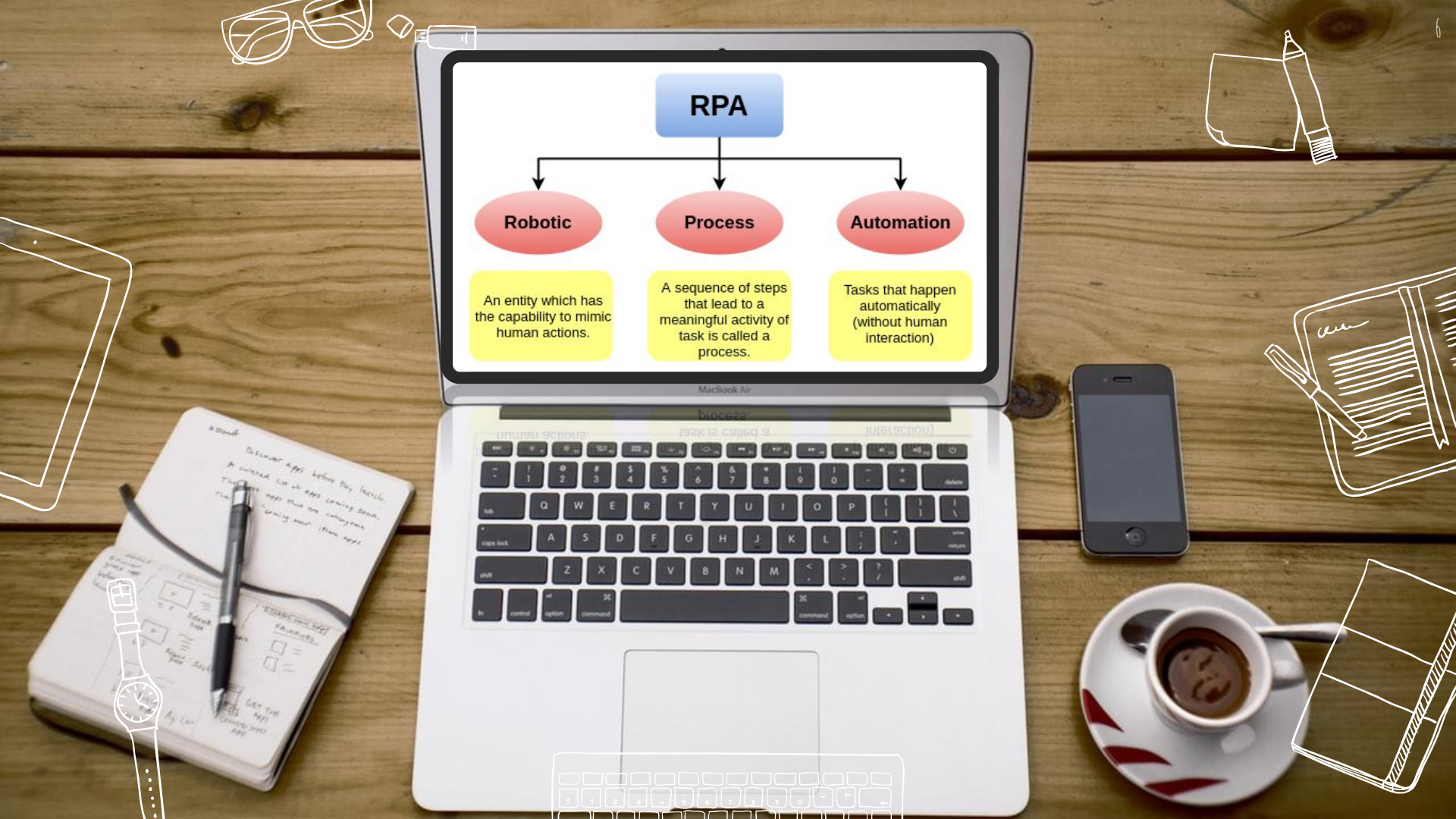
What is RPA ?



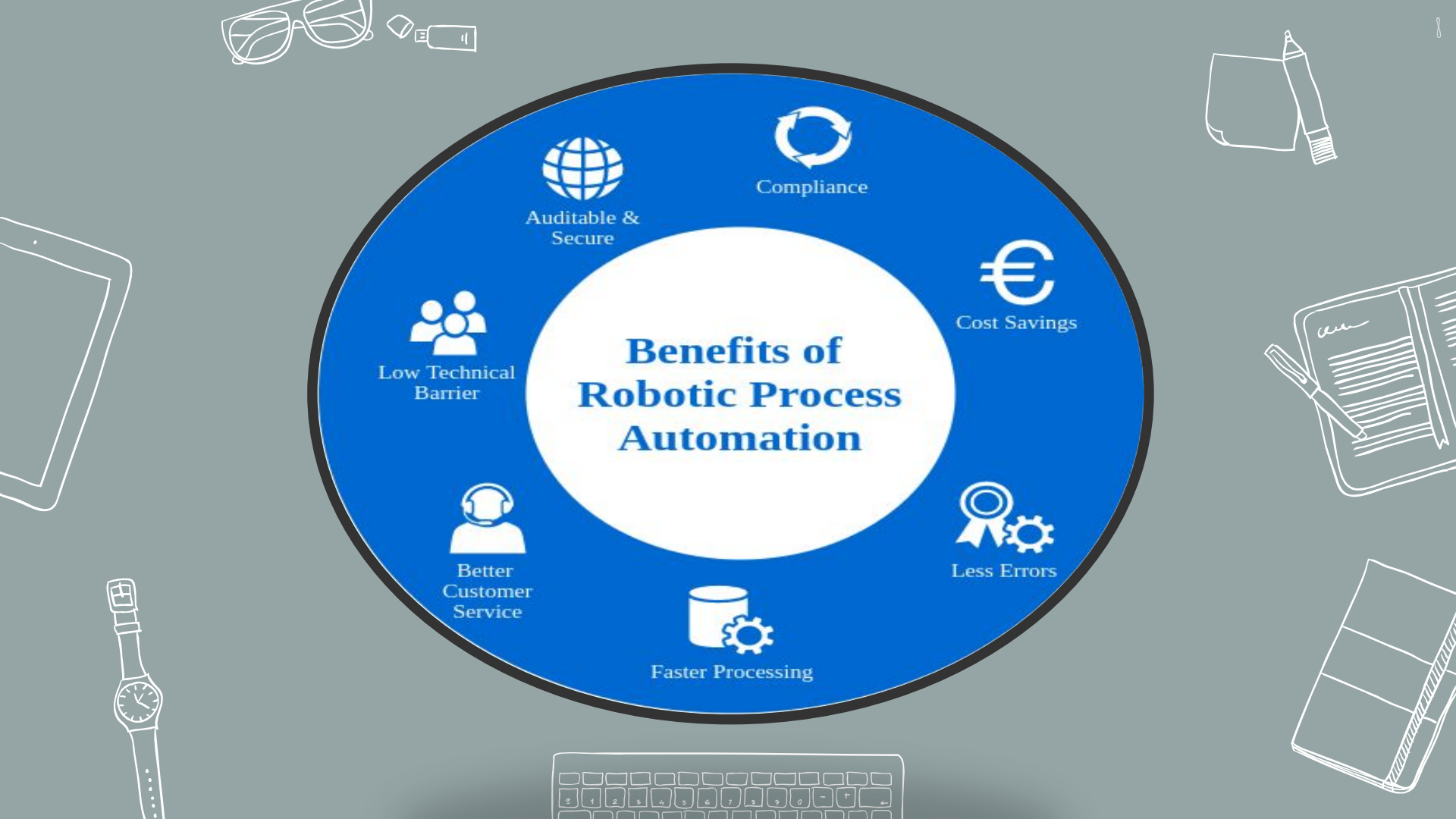


Robotic Process Automation, is the use of software with artificial intelligence and machine learning capabilities, to handle high volume, repeatable tasks that previously required humans to perform.

- RPA is also sometimes referred to as a bot which mimics human work by entering data, calculating tased etc.
- The software used to implement RPA sits on top of the IT structure of an organization.


RPA
Robotic
Process
Automation
An entity which has the capability to mimic human actions.
A sequence of steps that lead to a meaningful activity of task is called a process.
Tasks that happen automatically (without human interaction)

Benefits of RPA


Benefits of Robotic Process Automation
Compliance
Auditable & Secure
Cost Savings
Low Technical Barrier
Less Errors
Better Customer Service
Faster Processing

Robotic Spectrum

Robotics Spectrum

Integrated Desktop

Consolidating data from multiple sources into a single view to complete a process

Process Automation

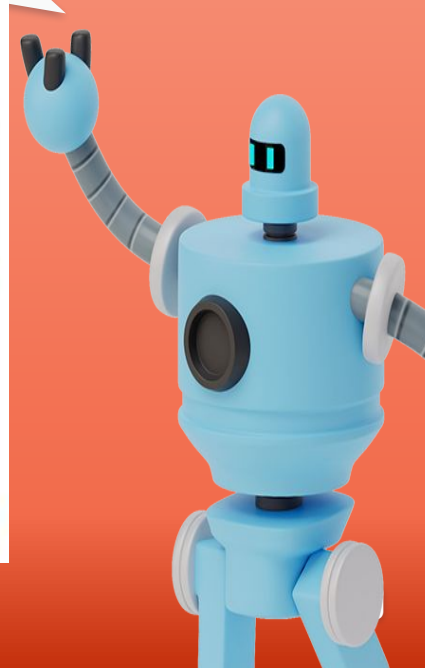
Applying technology to manipulate existing application software to complete a process

Digital/Virtual Assistance

Computer-generated character, which simulates a conversation to answer questions or queries and provide guidance

Cognitive Computing/ Autonomic Solutions

Systems that gain knowledge from data as "experience" and apply what is learned in upcoming situations



Features of RPA

1. Scalability
2. Speed
3. Reliability
4. Simplicity
5. Intelligence
6. Enterprise class

Capabilities of RPA

To build and manage an enterprise-wide RPA program, you need technology that can go far beyond simply helping you automate a single process. You require a platform that can help you create and manage a new enterprise-wide capability and help you become a fully automated enterprise. Your RPA technology must support you end-to-end, from discovering great automation opportunities everywhere, to quickly building high-performing robots, to managing thousands of automated workflows.

Getting started with RPA

1. Lay the foundation to move forward on a transformative RPA initiative. Prove out RPA's benefits through pilot projects and quick wins.

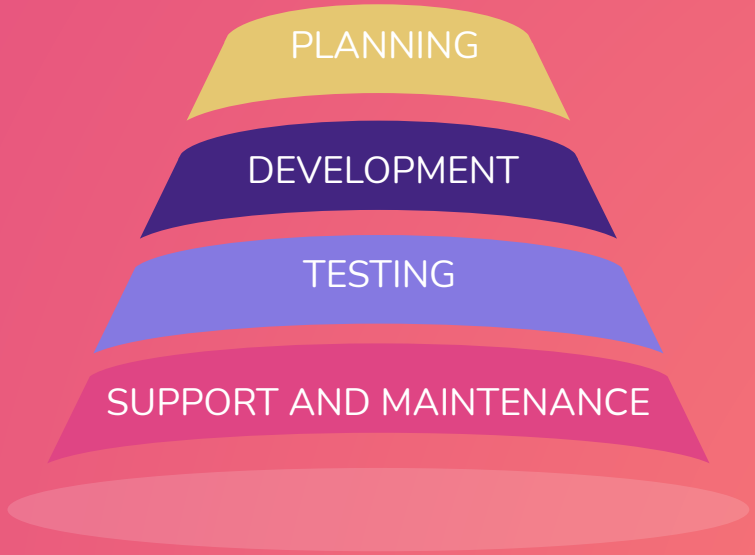
2. Scale automation by focusing first on top-down, cross-enterprise opportunities with big impact, and build out your automation skills along with your organization (like Automation Center of Excellence (COE))

3. Become a fully automated enterprise by capturing automation opportunities across the enterprise, from the top-down and the bottom up.

RPA Implementation Process

- List out Processes To Automate
- Perform Feasibility Assessment
- Readjust
- Gather User Stories
- Start Development Process
- Test RPA Process
- Reconfirm and Deploy

Funnel Diagram



Examples of RPA

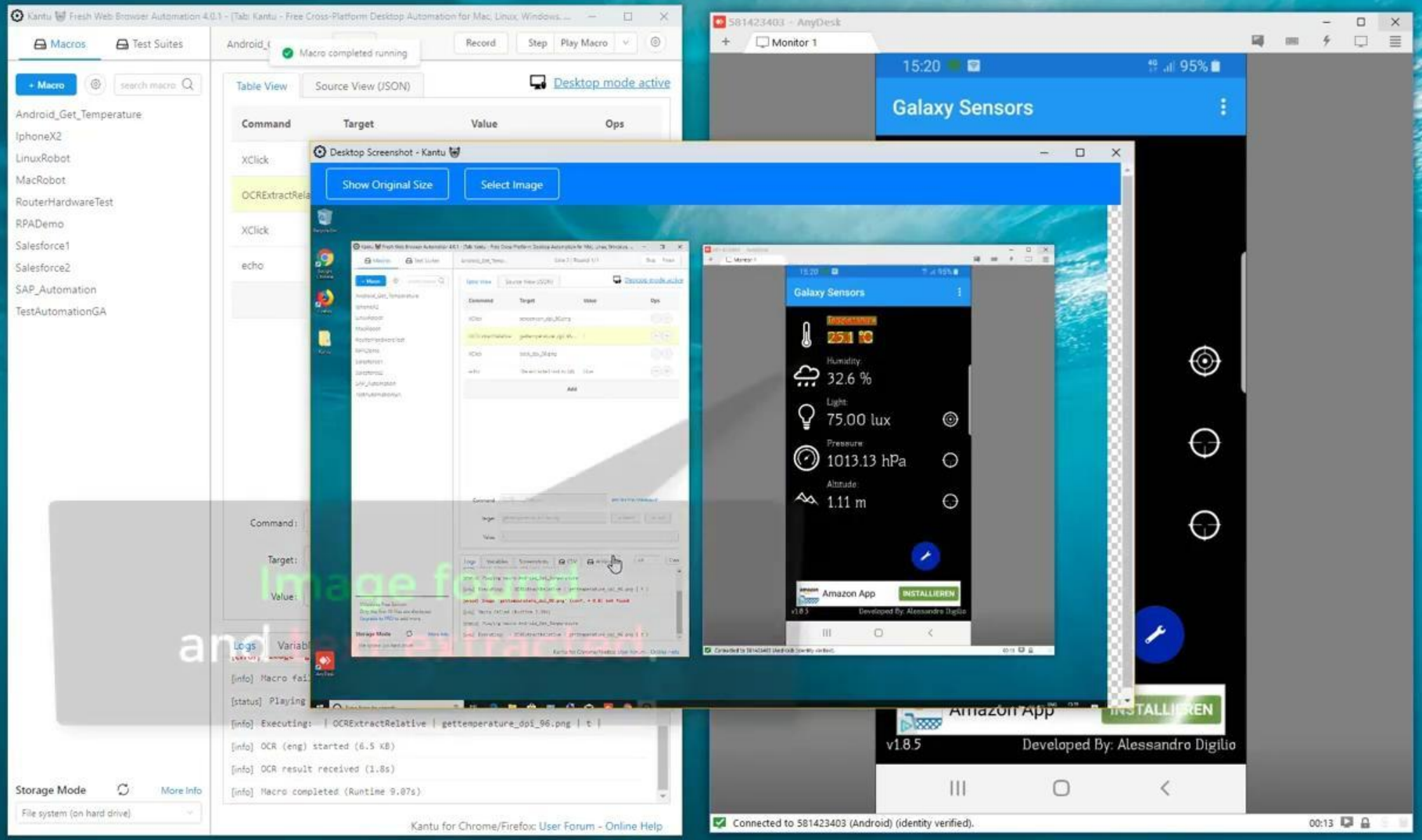
UI Automation

Computer-Vision Driven Automation for **Web** and **Desktop**

Key commands:

- XClick (**Image**)
- XClick (ocr=**text**)
- XType (key sequence)

True mouse and keyboard simulation, true native events (no Javascript click events)


Macros
Test Suites
Record
Step
Play Macro
Macro completed running
+ Macro
Android_Get_Temperature
IphoneX2
LinuxRobot
MacRobot
RouterHardwareTest
RPADemo
Salesforce1
Salesforce2
SAP_Automation
TestAutomationGA
Table View
Source View (JSON)
Desktop mode active
Command
Target
Value
Ops
XClick
OCRExtractRela
XClick
echo
Command:
Target:
Value:
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[status] Playing
[info] Executing: | OCRExtractRelative | gettemperature_dpi_96.png | t |
[info] OCR (eng) started (6.5 KB)
[info] OCR result received (1.8s)
[info] Macro completed (Runtime 9.07s)
Storage Mode
More Info
File system (on hard drive)
Kantu for Chrome/Firefox: User Forum - Online Help
Desktop Screenshot - Kantu
Show Original Size
Select Image
581423403 - AnyDesk
Monitor 1
15:20
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Galaxy Sensors
Temperature
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Humidity:
32.6 %
Light:
75.00 lux
Pressure:
1013.13 hPa
Altitude:
1.11 m
Amazon App
INSTALLIEREN
v1.8.5
Developed By: Alessandro Digilio
Connected to 581423403 (Android) (identity verified).
00:13

Q&A Session

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Thank You For Attending!

We really appreciate it, guys!