RPA and Mendix

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Benefits and challenges of RPA

Combining RPA and Mendix

Getting your pre-robotics right

Use case
AuraQ

Process
Improve performance and increase agility with business process solutions built around unique requirements

APP Delivery
Rapidly build, integrate and deploy web and mobile applications capable of delivering ROI in a matter of days

Content
Manage and govern content effectively, from creation through to archiving and disposition

RPA
Automate high volume repetitive tasks, close process gaps and improve integration with robotic process automation
What is RPA?

“What is RPA?”

“Automation of tasks through graphical user interface”

“Building a virtual workforce”

“RPA is forecasted to become a USD $5 billion market globally by 2020, growing by 60% annually.”


The many shapes of RPA

- Screen scraping
- Workflow automation
- Artificial intelligence
- Unattended RPA
- OCR
- Identifying patterns
- Virtual environments
- Natural language processing
- Learning and adapting
- Fraud detection
- Attended RPA
- Cognitive RPA
- Machine learning
- Scalability

2000

2019
Traditional RPA scope limitation

- **RPA comfort zone**
  - Legacy system / mainframe integration
  - High volume, repetitive tasks
  - Processes that require no knowledge input
  - Data available in standardized digital form

- **Low frequency scenarios**
  - The process is too rare to be worth investing in automation

- **Data not available in standardized digital form**
  - Data comes from a multiplicity of party in un-structured or semi-structured way (invoices, PO, etc.)

- **Complex processes**
  - Requiring judgement and appreciation
  - Large number of exceptions
Traditional RPA challenges

- Cost of implementation
- Speed of implementation
- Data consistency
- Defining processes
- Ethical

Data consistency is the single most important limitation we have observed in RPA projects.
RPA and Mendix are complementary

Mendix + RPA
In the context of Mendix projects, where integration with legacy system is not possible, non-invasive integration can be done through RPA.

RPA + Mendix
Where RPA requires a hybrid approach with some human intervention, Mendix can be used for exception management.

Mendix instead of RPA
For many use cases, Mendix can actually entirely replace RPA solutions:
- Increase speed of delivery
- No RPA skills required, leverage existing skills
Example: an insurance claim

- **01**: Claim form submitted
- **02**: RPA: MOT check, policy check
  > Case management system updated
- **03**: Mendix: Case management workflow, decision
The importance of pre-robotics

• Standardise and consolidate inbound data
• RPA tools rely on clean, validated data
• Impact on required number of Bots > complexity, length and cost
TrajeQt: pre-robotics powered by Mendix

**Receive:** capture data from any source (web integration, email, attachment, document upload). Text image is converted to readable text through OCR (optical character recognition) if necessary.

**Validate:** qualifies and validates the data received against configurable templates. Users can define those templates easily for each new type of document.

**Standardise:** all related data is then presented in a single standard format, as configured for the target organization. It is ready to be consumed for any further processes: reporting, journal posting, approval workflow, and full Robotic Process Automation.
TrajeQt: benefits

Mendix application layer
Business processes, user interfaces, mobile apps

TrajeQt

Structured data

Structured data

Semi-structured content

Other data source
(emails, docs, etc.)

Legacy system of record

Legacy system of record

RPA

Non-invasive integration

APIs
Demo
CASE STUDY

£3.28 billion

REVENUE AND ONE OF EUROPE’S LARGEST FOOD MANUFACTURER’S

2SFG employs more than 23,000 colleagues worldwide across 42 sites.
Automation of complete end-to-end journey

Solution

“If we didn’t have a means by which to standardise data then the whole project would have never got off the ground”

2 Sisters Food Group

INGESTION OF EMAIL
Unstructured information is captured.

EXCEPTION HANDLING
Exceptions are identified at the earliest opportunity.

DATA VALIDATION AND STANDARDISATION
Data validation & standardisation is performed on ALL documents.

DOCUMENT PARSING
Information is parsed, formatted data is then consumed by the robots.

DISPARATE ERP SYSTEMS UPDATED
Four separate ERP systems are now updated by the RPA solution.
Benefits Realisation

**AUTOMATION**
- 100% manual processing to 97% automated

**EFFICIENCY**
- Quality of data has improved substantially with 40% estimated efficiency gains

**COST SAVINGS**
- Approx. £250k saved per annum

**TOUCHLESS**
- Currently 89% touchless and improving

**APPLICATION DELIVERED IN 6 WEEKS**
Questions, ideas?