RPA UiPath Core 301

UiPath REFramework demystified
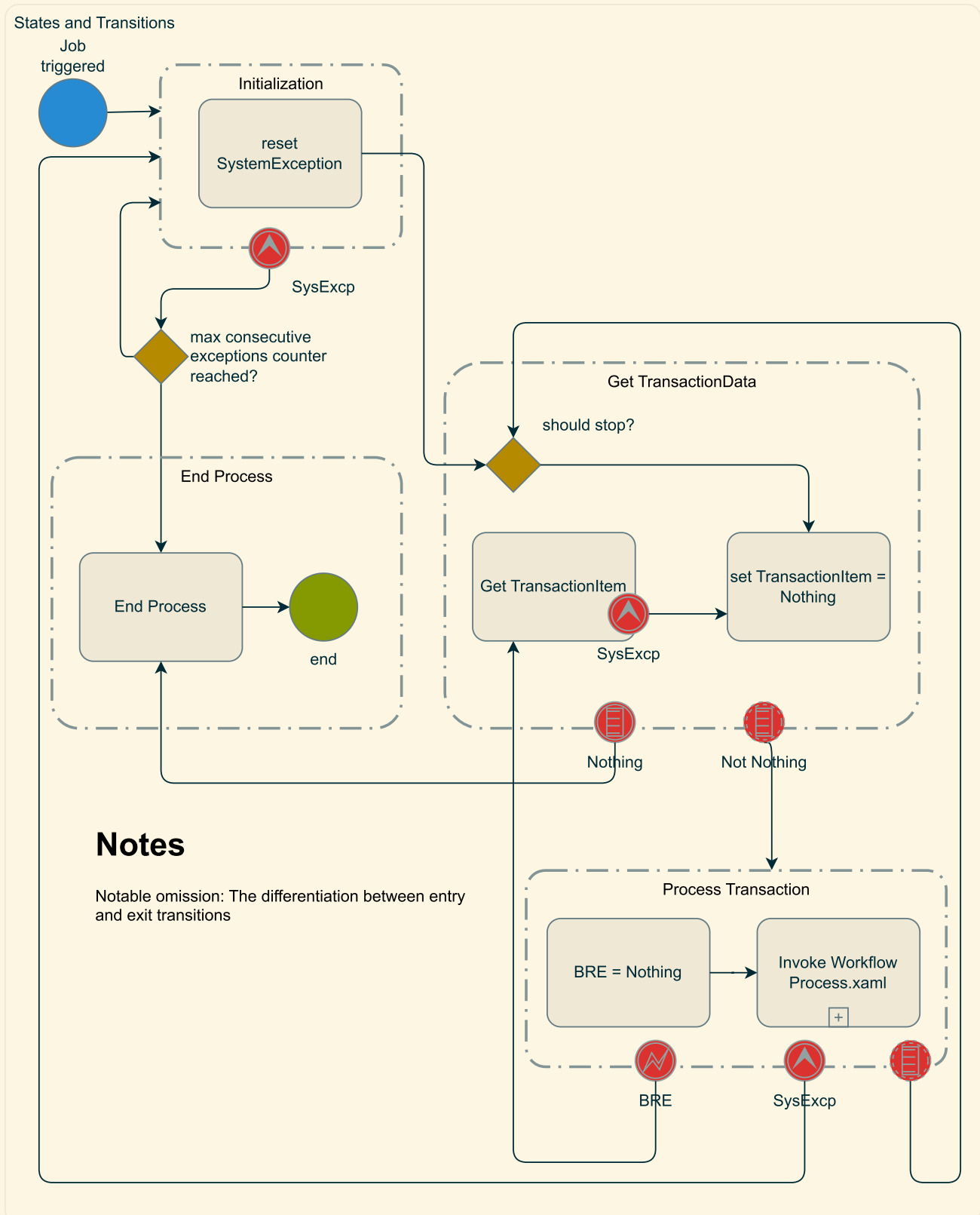# States and Transitions

Retry Behaviour
Adoptions
InProcessQueue

RPA UiPath REFramework

In the vendor-supplied project template "a lot is going on". The graphical editor UiPath Studio already shows a diagram-ish representation of the program flow. But for improved understanding diagrams with a specific focus are helpful, reduced to the maximum.

The transitions between the states is based on TransactionItem being Nothing or not, and variables holding a UiPath.Core.BusinessRuleException or System.Exception.

The file Main.xaml contains the state machine and is also defined as the main entrypoint. It implements the Performer functionality of the Dispatcher-Performer model for scaling automations.

Other entrypoints could be added and triggered from UiPath Orchestrator, e.g. to implement the Dispatcher.

States and Transitions

Job triggered

Initialization
reset SystemException

SysExcp

max consecutive exceptions counter reached?

End Process
End Process → end

Get TransactionData
should stop?

Get TransactionItem
SysExcp → set TransactionItem = Nothing

Nothing   Not Nothing

Notes

Notable omission: The differentiation between entry and exit transitions

Process Transaction
BRE = Nothing → Invoke Workflow Process.xaml [+]

BRE   SysExcp

to be continued

Corrections? Ideas?
Feel free to repost,
to start a discussion with your colleagues