

Start with the end in mind and everything falls in place






Project Organization


Project Organization - Agenda

Automation standards

Project overview

-  Input and output data
-  Structural guideline
-  Transactional business process

State machine

-  States, transitions

Story of the process

Best Practices

Q&A

Test

Online Resources

Automation Standards

Reliable

Progress tracking

Exceptions handling, recovery and error reporting

Efficient

Design = time well spent in development stage

Smooth execution in production environment

Maintainable

Clear structure and good development standards

Extensible

Open for new use cases to be incorporated

Project Overview

Project organization starts before opening UiPath

Input & output data

- Email, folders, files, queues
- Config/mapping file
- Logs, reports

Applications involved

- Web, desktop, Citrix

Process type

- Linear or repetitive

Structural Guideline

Break the process in simple workflows

- Collaborate working on separate files
- Develop and test pieces independently
- Reuse workflows (even across projects)
- Keep environment settings in dedicated file

Ui Main Workflow

- Flowchart
- State machine

Ui Business Logic

- Flowchart

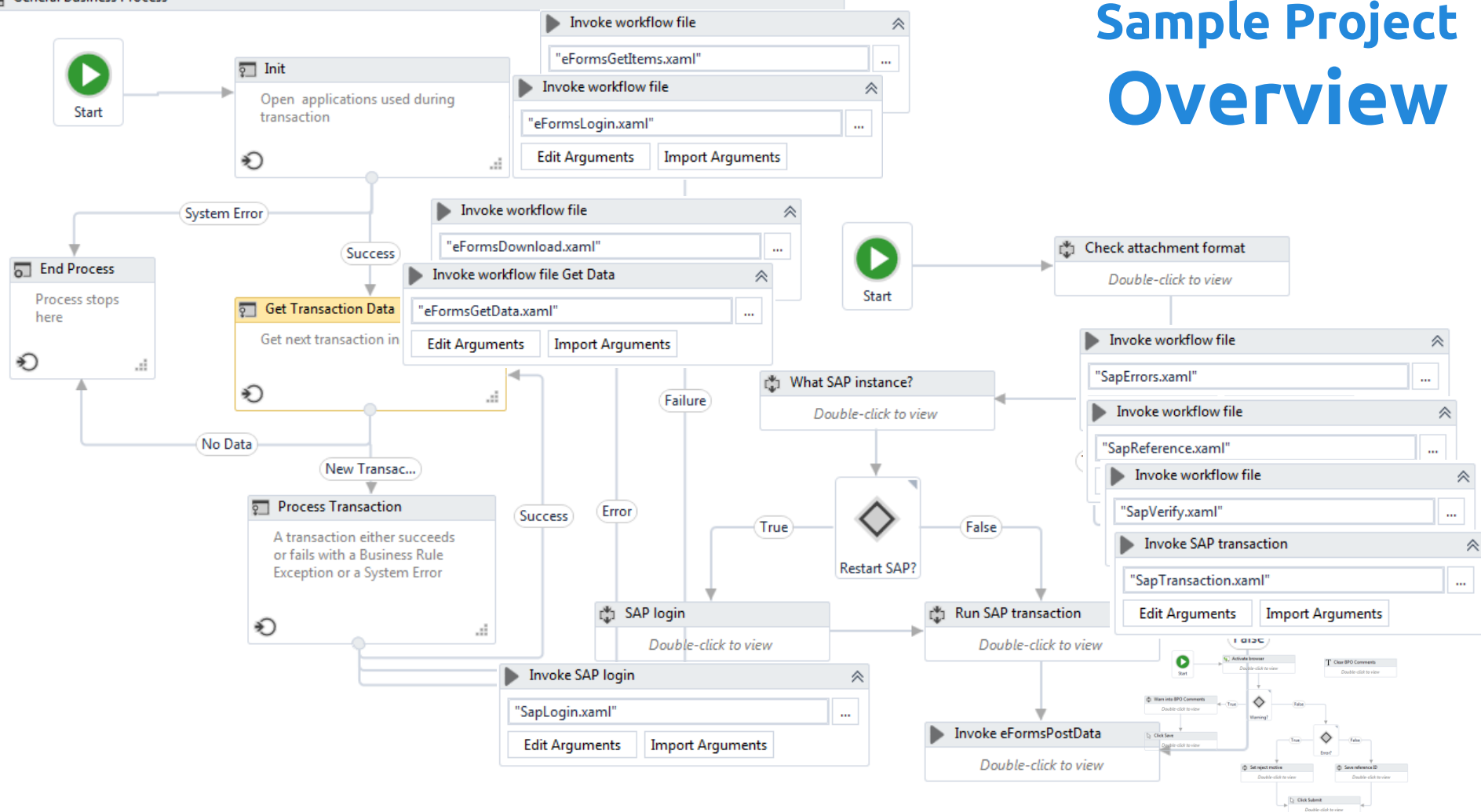
Ui Data Processing

- Sequence, VB
- Powershell script

Ui UI Interactions

- Sequence

Sample Project Overview



State Machine

Transactional Business Process Template

Ui State

- Entry
- Trigger
- Exit

Ui Transition

- Condition
- Action
- Destination

Ui Initialization

- Start applications

Ui Get Transaction

- Is work
- No Work

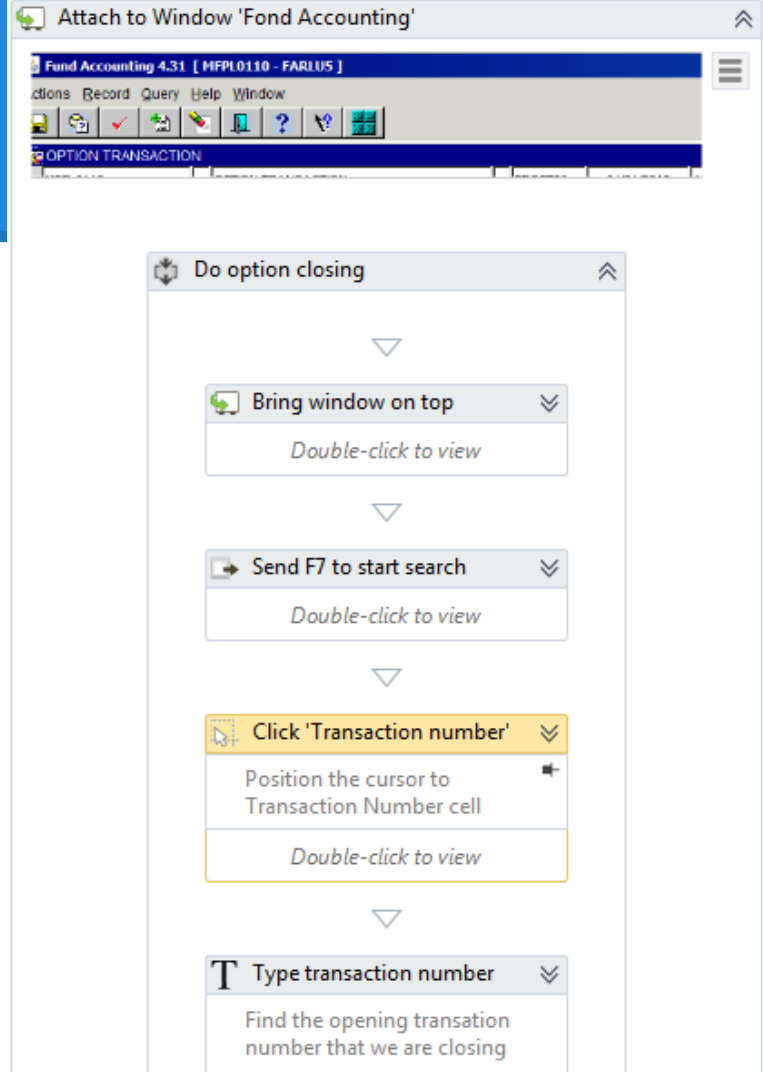
Ui Process Transaction

- Success
- Rule exception
- System error

Writing Stories

Automation puts **people above robots**.
Describe what the robot is doing so
people understand.

- ❑ Every *Sequence* tells a story
- ❑ *Flowcharts* show the plot around decision making
- ❑ *Annotation* describes a step in more detail
- ❑ *Comment* activity shows contextual aspects between activities



Practical Examples

- Project overview
- State machine
- External settings

Exercise: Show the hierarchical tree of the sample project

Best Practices

- Break the whole process in simple workflows
 - Collaborate working on separate files
 - Develop and test pieces independently
 - Reuse workflows across projects
 - *InvokeWorkflow* with *Unsafe* option or *LaunchWorkflowInteractive*
- Pick an appropriate layout for each workflow
- Give meaningful names to all components
 - Workflows, activities, arguments and variables
- Keep it clean: close applications, windows, web pages
- Keep environment settings in a config file



Q&A



Test

Online Resources

- Ui [How to use Windows credentials](#)
- Ui [Reusing workflows across projects](#)