

08/15/2023

- UiPATH - ARD [Drag 'State Machine' from activities panel inside sequence]

### \* State machine in Studio

- Interconnected states which are executed again and again when ever necessary.

- For example, turnstile
  - idle
  - access granted
  - access denied
  - OFF

- Example: Wending machine → Finite Number of States & transitions

### \* States: Entry, Exit, Transitions

Activities performed at entry and exit

Transition is created when you link a state to another state or to the final state. → Compulsory to make transition for state

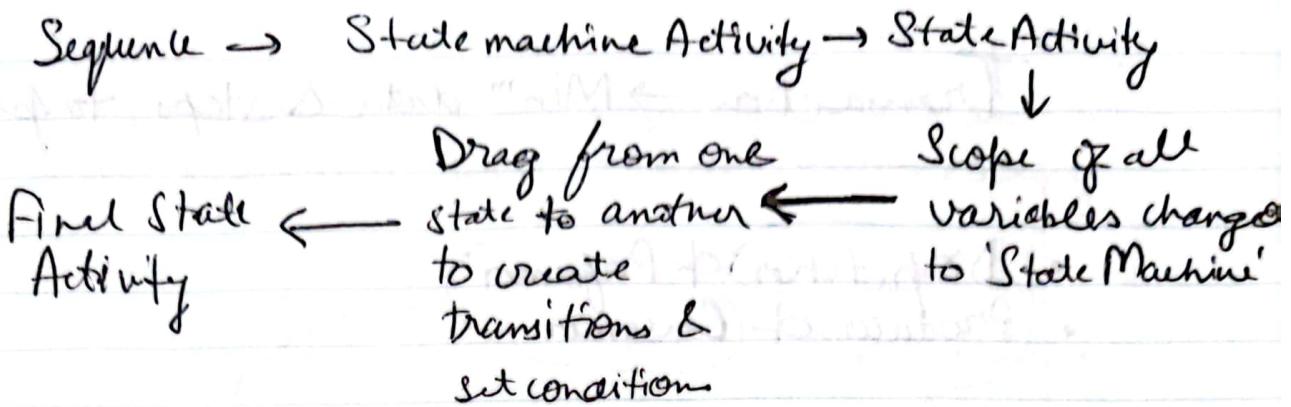
Final State: Workflow > State machine > Final State  
↳ Only one state [Entry]

One Initial State but at least one final state

(CAN BE MORE)

Trigger: A triggering activity that causes a transition to occur.

Assign Variable = Data Parse(StringVariable) This converts to data



Recommended : Only one transition is true at a time. If there are more transitions defined and are true, only the first one will be executed.

### REFramework

- ↳ ViPath Studio Template using
- ↳ Prebuilt with best practices ^ State machine
- ↳ Prereq. for process into production esp. for unattended automation.

### Business Process

↳ Linear

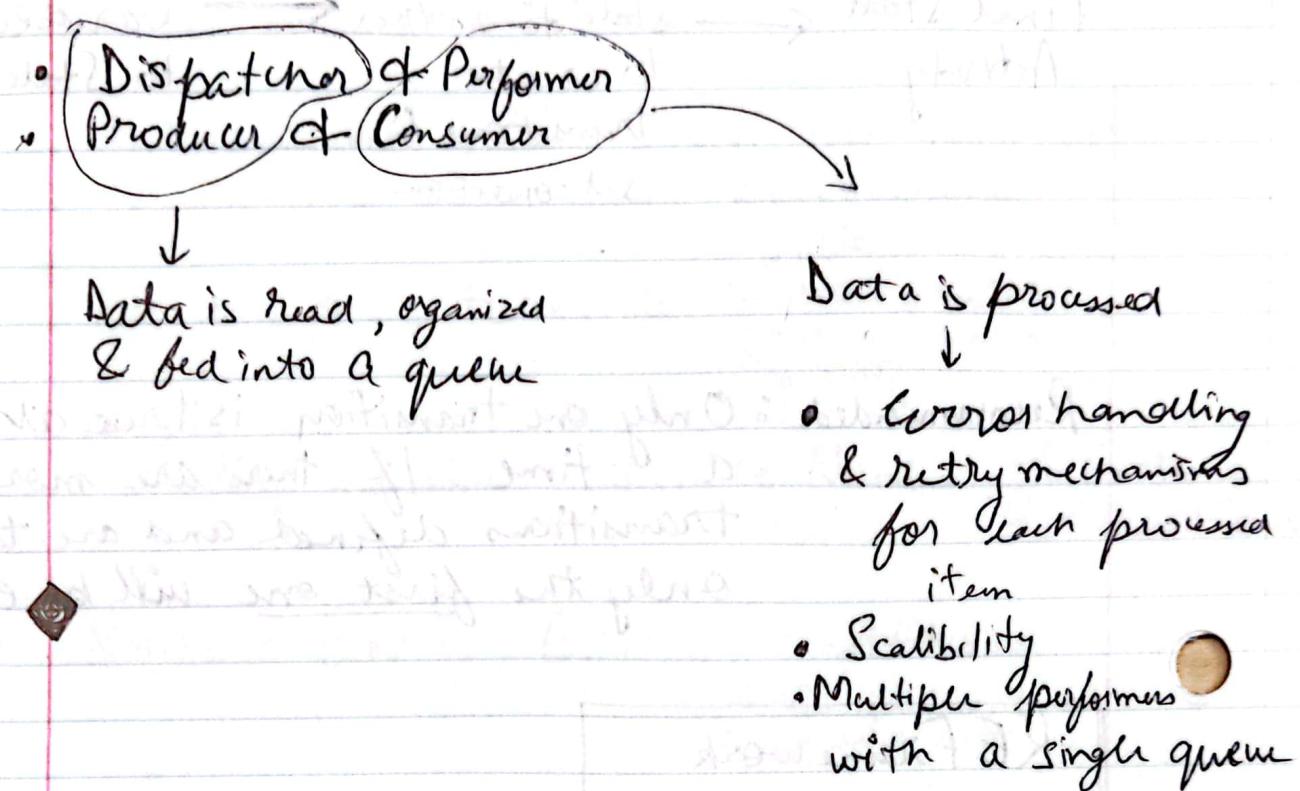
↳ Iterative

↳ Transactional → Do not share data OR have a particular order

REFramework can handle any business process and it is designed to address transactional process in its out-of-the-box version

(Performers update the status of queue items)  
since they do the processing

Transaction → Min<sup>m</sup> data & steps to process it



When an orchestrator queue is used for input data, the Retry feature of Queue must be used instead of the RE Framework retry mechanism.

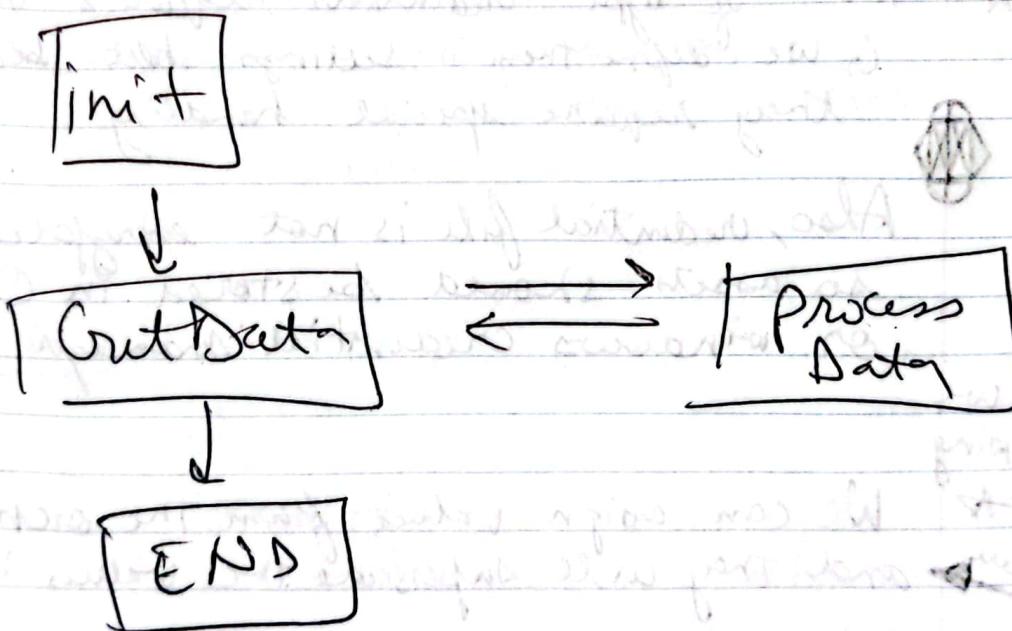
RE Framework has a centralized configuration file & also uses assets in Orchestrator for easier management of the configuration value after deployment.

- \* RE framework has logging mechanism and screenshots were taken automatically



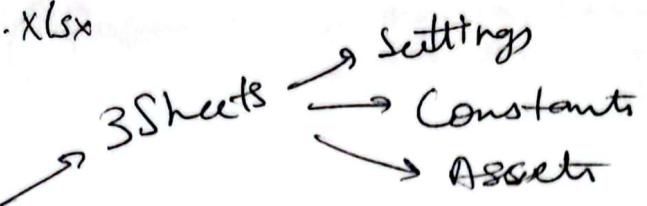
Initialization

- ↳ Create Transaction Data → Exception Handling
- ↳ Process Transaction → Commit status
- ↳ End Process → Retry mechanism



- \* Config file is read only once at the start of process execution.
  - If → config is Nothing
    - ↳ file is read in the init AllSetting Workflow

Config.xlsx



★ Config is a dict of type <String, Object>

### ★ Initialization

- ↳ Reads config file & opens applications
- ↳ If screen resolution fails, it is automatically
- ↳ Exception handling is done

★ By default the maxRetryNumber in config file is 0

★ Assets of type credentials require 2 values <sup>username</sup> <sub>password</sub>  
↳ we define them in settings sheet because they require special handling.

Also, credential file is not encrypted so assets should be stored in Orchestrator or windows credential manager.

Here we are talking about the queue name and queue folder name

We can assign values from the orchestrator and they will supersede the values in Config file.

We can also assign values from assistant.

★ Kill All Processes Workflow is invoked.

Transaction : Repetitive part of our process

## \* Get Transaction Data State

- ↳ Where robot retrieves the queue items
- ↳ Here transactions are numbered and are incremented with each iteration
- ↳ Checks if there are queue items left or if it should stop
- ↳ Should Stop Activity

## \* Process Transaction State

- ↳ Try catches with process.xml & more arguments
- ↳ Takes transaction item & config as arguments
- ↳ Business Rule Exception.
- ↳ System Exception
- ↳ Set Transaction Status
- ↳ Retries

## \* End Process

- ↳ No Data
- ↳ Close All Applications - Try
- ↳ Kill All Application - Catch
- ↳ Terminate main window - Finally

## \* Execution and Logging

- ↳ RE Provides predefined event logging
- ↳ logs can be sent to Elasticsearch, Insights or the Kibana platform
- ↳ Sensitive data should not be logged

# ★% RE framework Development Checklist

## ① Pre requisites .

- ↳ Robot connected to Orchestrator
- ↳ Creating queue
- ↳ Setting retry mechanism

## ② Configuration in UiPath Studio

- ↳ Creating process with framework
- ↳ customizing config file

## ③ Applications Used : Open / Close / Kill

- ↳ Workflows that start the applications and close when processing ends.
- ↳ Force close

## ④ Business Process : Transaction Data & Process

- ↳ Editing transaction data & process

## \* Naming convention for project :-

Department name - Name of Template - Name of Process

Ex Academy - REF - UI Demo

TSP - REF - POC5MananSagar

Copy this project name in config of folder  
'Business ProcessName'

The application ~~that~~ in path used in assets should not be in a read only path

\* Creating a folder in Orchestrator

Tenant → Folders → New Folder Icon → Name, Desc,  
Create ← Tenant Package Feed

\* Adding queue to a folder

Hover over folder → 3 dots → Add → Queue → Name, Desc,  
Add folder name to ← Add ← Auto Retry(1)  
config settings

\* Adding Data to Queue

Folder → Queue → 3 dots → Upload items → CSV file  
Copy Queue Name and ← Upload ←  
paste it in config file in settings sheet

\* Adding Assets to Orchestrator

Folder → Assets → New Asset → Name, Type, Desc →  
Copy Asset Name and ← Create ← Asset Value Feed  
paste it in config file without quotation marks

\* Adding credentials to orchestrator asset

Asset → Type: Credentials → copy name to config file

\* The framework throws an exception when an asset is declared in the configuration file, but it is missing in Orchestrator.  
In this case process stops ~~at~~ in the init phase.

\* Constant Sheet in config contains:

- Max Consecutive System Exceptions
- Retry No. Set Transition States
- Retry Number over Transaction Item
- Should Mark Job As Failed

- \* Defining a threshold value for a business rule is done in the settings sheet of the config file.

OPEN /  
Close /

Project Configuration ① Make project folder and add to the project directory

Kill ② Framework → Init All Applications.xaml file

Pass Values to arguments ← Import our initial workflow & Arguments  
~~AppPath~~  
Example of values:

\* In-Config("UiDemo\_ApplicationPath").ToString

This passes the application path from config file to the studio workflow argument.

Similarly, we import our last close workflow in the Close All Applications.xaml workflow.

Similarly, for KillAll Process.xaml

Converting to decimal → cDec(in->config(" "))

## \* Get Transaction Data .xml

↳ By default this workflow is used to set orchestrator queue items.

↳ Next we change the transaction logging fields.

To extract from 'assets' in the log file, we use 'SpecificContent()' method

For example, in log message is

Out-TransactionItem. SpecificContent("cashIn")

## \* Process Transaction

↳ Open the process, Workflow

↳ Add Workflows here that add to the major business process

## \* UI Path Test Suite

↳ Application Testing

↳ RPA Testing

Debug  
Run

↓  
Run Paths with data variations.

↓  
Select Tests.

Four components: Test Manager

Studio

Orchestrator

Test Robots.

- \* When running a test case, we usually close all the ~~the~~ previous applications/windows.
- \* WorkflowTestCaseTemplate.xaml is used to create test cases for workflow in process.
- \* Improvements are then changed in the Documentation-EN.pdf file
- \* To run a process on different machines that hold different target application paths, we create an application path Asset with different values per Robot in Orchestrator and reference it in the Assets Sheets in the config file

## RE Framework without Queue Items Development Checklist

### ① Prerequisites

↳ By default 'TransactionItem' type is queueItem, so the first thing that needs to be done is what type of data the automation requires.

### ② Configuration

↳ Creating new process & config file

### ③ Change TransactionItem data type

### ④ Application used : Open/Closy Kill

### ⑤ Business Process : Get Transaction Data & Process Transaction.

In place of orchestrator queues, we can use execution reports to reflect the status of each transaction.

For the initial white boarding of the process, following information must be considered:

- (1) Workflow name
- (2) Description
- (3) Pre-Condition
- (4) Post-condition
- (5) Arguments
- (6) State

Naming convention:

Department name - Name of Template - Name of process

Eg Academy - REF Tabular - UDemo.

\* Queue item datatype should be replaced with Dataflow & remove errors

In get transaction data & process transaction we get a validation error in assign statement.

Replace nothing (Owner) with nothing (Dataflow)

\* A transaction item can be applied to any type of data like email, Excel, etc

Credential package has to be installed.

- \* Transaction Data variable should be of the type of a collection of TransactionItem type
- \* In some places, the value of 'transaction item' can also be replaced with 'nothing' in the variables panel.
- \* Remove the 'Get Transaction activity' from 'Get TransactionData' workflow and add the read range activity. Then add logic
- \* In RE Framework template, the 'TransactionData' variable is used to store the collection of read data, when an orchestrator queue isn't in use.
- \* An execution report is made to display the status of each transaction.

### Converting RE Framework template to

linear:

Add an If activity to check in\_TransactionNumber.

in\_TransactionNumber = 1      else

Then ↴

out\_TransactionItem = "Trans" 2      out\_TransactionItem = "Nothing"

• parallel or at the same time

→ it's good for parallel execution and management of resources

\* 'Workflow Test Case Template.xaml' is a template that is used to create custom templates

\* In the test explorer tab we can see the details about the test cases executed

## Date Time

- ↳ System.DateTime → ~~Not~~ Not Variable
- ↳ We can put the default value as 'Now'

MM → month

mm → minute

HH → 24 hr format

hh → 12 hr format

Date Time Var. ToString ("yyyy-MM-dd hh:mm:ss zzz")  
↓  
Time Zone

★ String to Date time:

→ `Date Time.Parse("09/16/2021")`

↑ MM/dd/yyyy format

To handle this, we can use

→ `Date Time.ParseExact("20/09/2021", "dd/MM/yyyy", Culture Info.InvariantCulture)`

To get an array of Dates,

→ `Date Time.ParseExact("20/04/2021", {"dd/MM/yyyy", "dd.MM.yyyy"}, CultureInfo.InvariantCulture, DateTimeStyles.None)`

To add/Subtract to date,

→ `DateTimeVar.AddHours(2)`

→ `DateTimeVar.AddHours(-15)`

Math.Abs()  
can be used  
to convert  
-ve values to +ve  
values.

Subtract →

- Add Days( )

etc

We can also use  
(`DateTimeVar - Start of Year`)

→ To subtract -

`DateTimeVar.Subtract(Start of Year).TotalDays.ToString()`

If `Start of Year > DateTimeVar` we get -ve value

## \* Select Method

(↳ To filter a DT)

Column name  
↓

Var1.Select("[Pets] = 'Yes' AND [No] = 2").CopyToDataTable

Put the output DT  
in 'To' Value

Checks if there is atleast  
1 value in the DT filter

True condition

If(Var1.Select("[price] < 100").Any, Var1.Select(" ")).

Copy To DataTable, (Var1.Clone) ←

False condition

## \* Activity Project Settings → General

(↳ Location of Project → Test Manager configuration)

(↳ Type of Automation - Attended/Unattended)

(↳ Version of UIAuth etc)

(↳ Diff. settings can be done

for production & debug)

Gear icon in project panel

Brown

## Packages

↳ Dependencies → Right Click → Manage Packages

◦ Remove, Replace

◦ Import Namespaces

Runtime Rule → Strict (Default)

→ Lowest Applicable Version (Resolves dependencies)

When we can't resolve dependencies, it updates to the next one to resolve dependencies.

Workflow Analyzer is not project specific, any changes here will be reflected in future projects.

## Activity Settings

↳ CV

↳ GCR

↳ UI Automation classic

↳ " " Modern

↳ Excel Business

↳ System

~~\*~~ Any changes made to the properties panel will take precedence over the properties window.

## Templates

- ↳ Export to template on the ribbon
- ↳ Can be published to the orchestrator or locally or custom

## ~~\*~~ Workflow Analyzer in Studio

↳ Checks the project and workflow for inconsistencies without executing the project

- Edit, disable & enable rules from studio
- Run validation
- Manage errors & warnings in Error list panel
- Built custom rules using Activities package
- Integrate workflow analysis with prebuilt and/or custom rules in CI/CD pipeline configurations

We need the W. Analyzer to:

- ↳ Follow best practices
- ↳ Governance policies using file based governance & VIPath Automation OPS

Home → Settings → Design



- ① Enforce Analyzer before run
- ② Enforce Analyzer before publish

## \* Work flow Analyzer rules Category :

- ① NMG - Naming
- ② DBP - Design Best Practices
- ③ ANA → Project Anatomy rules
- ④ MRD - Maintainability & Readability
- ⑤ USG - Usage Rules
- ⑥ PRR - Performance & Reusability
- ⑦ REL - Reliability rules
- ⑧ SEC - Security

Rules get updated with new releases  
& mail, excel, Testing etc contain  
their own set of rules.

Rules Actions:

- Errors
- Warning
- Info
- Verbose (creates large logfiles)

If we changed any rule, → Right Click → Reset to Default

## \* Exporting Workflow Analyzer results

Studio Backstage View → Settings → Design

Enable Export to Analyzer results

✓  
Saved in JSON file

In \local\analysis\subfolders



hidden folder

①

compilation  
✓

Analysis Options run validations first then error checking

## \* Command Line support

- ↳ ViPath.Studio.CommandLine.exe
- ↳ Available in the installation folder.

## \* Building custom rules

- ↳ ViPath.Activities API package from official fed.
- ↳ Custom rules are build in an IDE
- ↳ Can be integrated at global / project level

②

Governance

- ↳ Creating custom policies

ViPath Automation Ops ; rule based governance

③

Workflow Analyzer Settings menu:

- ↳ Access the documentation page for each rule
- ↳ Change the default action for each rule
- ↳ Configure rule parameters, where possible
- ↳ Enable & disable rules

④

JSON file contain :

- Error Description
- Parameters
- Severity

\* Each rule in the workflow analyzer contain:

- ↳ Recommendation
- ↳ Description
- ↳ Name
- ↳ ID

## \* Triggers

Time triggers

Schedule

Queue triggers.

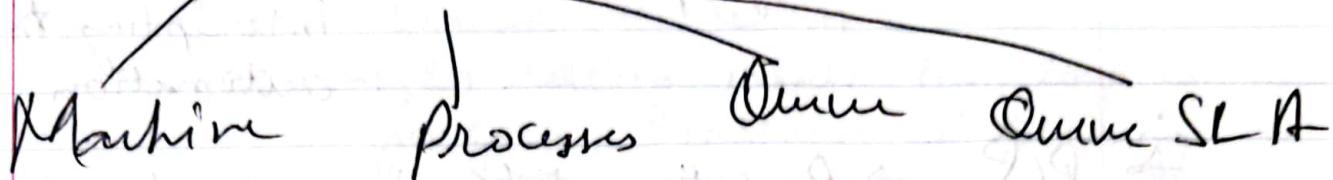
When new items  
are added

## \* SLA (Queue Settings → Toggle)

↳ In orchestrator, this takes the form of a time interval in which queue has to be processed.

↳ The risk SLA is a subsequent concept in Orchestrator, meant to identify the point at which corrective action needs to be taken to avoid breaching the SLA.

# Monitoring



## ★ Attended Automation

↳ Monitored through UI Path Assistant.

↳ Cannot start until a user has logged into its system

↳ Cannot be executed/scheduled from the orchestrator but some management & all monitoring capabilities are provided through orchestrator

AA

UA

- o User Computer
- o Triggered by user activity
- o User Credentials
- o Real time human/robot

- o Dedicated Comp
- o Scheduled by orchestrator
- o Robot credentials
- o Notifies human of status updates

Attended process can trigger unattended processes

\* Block User Input Activity → Prevents user from  
until the key is pressed

~~interrupt~~

interrupting the  
automation

\* PIP → Real time display in separate window

\* Simulate Click & Send Window Message

Allow automation that runs in an isolated mode to interact with an application without mouse or keyboard hardware involvement.

\* Trigger → Pre determined workflow  
that takes place when an event occurs

click, mouse, Process start, key press, system

\* Background process → start to finish  
without user interaction

\* Invoke Process → Executes a process available for local machine.

Can be used to run local packages as well as processes in Orchestrator if a connection is available

\* Run Parallel Process

The user cannot restore the effects of the block User Input activity after it has been disabled at runtime.

### Block User Best Activities

- ↳ Let user know before this activity is activated & escape combo
- ↳ Must be used with caution
  - ↳ Consider adding inside the loop in a for each instead of placing a for loop inside block
  - ↳ Block user is not supported with parallel activities
- ↳ Using debug inside Block Input enables the effect of scope. → We can use hotkeys to disable this which is specified in the unblock action in prop.  
Execution can be continued without the scope & functionality might be broken.
- ↳ Once hotkey is pressed, it cannot be reblocked
- ↳ Hotkeys + other keys also works.

### Simulate Type

- ↳ Automatically empty the field regardless of empty field property value

- \* If we choose both Simulate & Send Windows, UI Input activities will run using Send Windows rather than default & simulate

Here we can change whole project settings

\* Also output for simulate & send windows can differ based on technologies used.

Activity  
Project  
Settings  
menu

and it's the job of the developer to handle this exception and end the life of the thread nicely without

- o If in the individual activity we select 'Simulate' & in the project settings we select 'Send windows', we will get an error at runtime.

PIP

Assistant → Automation

↳ Right Click → Run in PIP

- o Might run into issues if not designed in PIP mode.

- o Project Settings → General

↳ Start in PIP  
↳ Enable

We can also enable 'PIP ready'

to encounter this

Setting → PIP.

↳ Then it becomes

default during run & testing

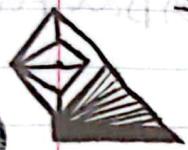
MS Office app do not work well in PIP if already open in free PIP mode

To run PIP for specific workflow



- Properties → Isolate checkmarked  
of Activity & ~~PIP~~   
Target Session to PIP

When this is enabled, we are not able to use non serialized datatypes such as browser type for arguments.



Int & string work fine

\* Browsers in different sessions.

• The USER DATA browser field contains essential profile data. Such as history, book marks, ~~etc~~ pre installed local starters etc.

• We cannot have a specific browser open in main & PIP at the same time.

Properties Of ~~an~~ Open browser & Open application

- UserDataFolderMode
- UserDataFolderPath



## User Data Folder Mode

Automatic



Default Folders.

Custom Folder

- Automatically set if default mode is not set.  
We can use different profiles in PIP & main  
• using same browser.
- Uses default folder
  - Make sure the browser is not open & using default profile in main.
- Custom folder or if path not set in User Data Folder Path

• Cannot use default profile in PIP session



## User Data Folder Path

• Usually for custom

### \* PIP best practices

- ↳ UI Automation in PIP & human API work in main
- ↳ Target Selection should be used more
- ↳ Check if not already open in main session to avoid writing in the same file for conflicts
- ↳ If file open in main, ~~do~~ read data from there with a targeted invoke workflow

## Limitations

- If PIN is required, credentials are needed everytime
- If browser open in main, another profile is used in PIP
  - This is done automatically by the open browser activity.
- Isolated option should be checked.
- Non-Serializable datatypes cannot pass b/w workflows
- Home editions of Windows 8 & 10 are not supported.
- Only one PIP session at a time on same machine
- Run as administrator not allowed in PIP.
- Machine cannot restart/shutdown while in PIP

New Project

## \* Background Processes & Triggers

Background Project  
from template

- Template for running processes in parallel with ONE foreground process.

! Must not contain UI interaction activities like Click / Type Into.

- Feature only for attended robots.
- For unattended, each process consumes a diff. license.

\* Triggers - Monitors user's machine & take action when something happens.

Default dependencies of a background process are:

- ① UiPath.Excel Activities
- ② UiPath.Mail Activities
- ③ UiPath.System Activities
- ④ UiPath.WebAPI Activities

- o Background processes can pass data between other background & foreground processes.

~~JK~~ To use triggers, a 'UI Automation Activities' package is required.

- o Trigger activities should be used inside a trigger scope container.
- o To interrupt the trigger scope activity, a break activity should be used.

\* Element Attribute Change Trigger Activity

↳ If an element changes.

Set the attribute name

↳ Use assign activity to get the changing value

InnertextValue = args.EventInfo.AttributeEventInfo.Value.ToString

- o If we start a background process with a foreground scope and another entity is running in the foreground (either a process / another foreground scope) the background process goes into a queue and waits determined by the 'Wait for foreground' property to acquire foreground.

Only background process with a foreground scope make use of this queue not standalone foreground processes.

Hence, a foreground process fails if started while either another foreground process or a background process with a foreground scope is running.

- \* When published to orchestrator, we get the following options in additional settings:
  - o Automatically Start Process
    - ↳ Starts the process when assistant is first started on user's machine
  - o Process can't be stopped from ViPath Assistant
    - ↳ Can't terminate from assistant
    - ↳ Only when computer is restarted or process kills itself or ViPath.exe from Task Manager

Unattended processes are not affected by these settings. It is only for attended process.

Trigger Scopes have 3 scheduling options:

- ① One Time - execute 1 action & exit
- ② Sequential - One after another
- ③ Concurrent - Action execution can overlap

⇒ Trigger Block to Action block  
via trigger argument.

Key properties of trigger 'args'

- ① Trigger Name
- ② Trigger Type
- ③ Event Info

★ When adding different types of triggers in the same Trigger scope activity, the args type defaults to 'TriggerArgs'. This means trigger arguments lose the specific event properties like EventInfo, FileChangeInfo etc.

To solve this → We cast the specific type of argument to new variables

99%

① Inside Actions container, Create new variables for each trigger

② Set each variable to specific argument type  
e.g. UiPath.Core.Activities.EventInfoTrigger.Args OR  
UiPath.Core.Activities.FileChangeTrigger.Args  
in variable panel

③ Assign variables and convert their default types

(a) AttributeChangeArgs = CType(args, EventInfoTrigger.Args)

(b) FileChangeArgs = CType(args, FileChangeTrigger.Args)

④ Use new variables to pass event data

\* Trigger Scope can also be used inside parallel activity. Not Recommended for more than two trigger scope.

\* In serializable data types like UIBrowser & UIElement cannot be passed between processes.

★ When we reference an automation with the "invoke process" or "run parallel process" activities we must specify the package name not the display name.

Usually the package name & the display name hold the same value but there are situations where they might differ like spaces are replaced with dots.

→ We can change the display name in additional settings.

### ★ Run Parallel Process Activity

This activity shares common properties with invoke workflow but the two activities are different in a sense that Run parallel process activity only lets us send data to the invoked process but not retrieve it.

We can only use IN arguments.

★ Invoke Process & Run parallel process execute processes that are available to the local machine and not orchestrator.

## Input method capabilities.

Capability method	Compatibility	Background Execution	Speed	Hotkey Support	Auto Empty field
Default	100%	No	50%	Yes	Yes
Send Windows Message	80%	Yes	50%	Yes	No
Simulate Type/Click	99% web apps 60% desktop apps	Yes	100%	No	Yes

## ★ Invoke Method Activity

- helps us call a method that is outside the standard built in activities.
- Used to call a specific method in class.
- The activity calls a public method of a specified type or object.
- It acts on either Target Type or Target Object

## Invoke Method Activity

### Static Method

- When a class is defined as Static, we don't need to define the object.
- The target type is used.

### Instance Method

- The object from which the method or members are derived needs to be defined.
- Target object is used.

In C#, method signature contains the word static.

- If both methods are used, an error is given.

## Invoke Code Activity

When using VB.NET code in invoke code activity, assemblies must be added.

Name Spaces panel is used to add / edit namespaces.

Imports panel

Select Namespace

$$3 \times 10^6$$

### Input

- Invoke code Activity doesn't support functions/ procedures/ methods.
- Also remove end of the procedure.
- In & Out arguments have to be added with the code

## Questions

- Q By default what state ~~does a~~ needs to be configured to adapt the RE framework into a linear process?
- A Get Transaction Data
- Q For tabular data in REFramework, which activity needs to be replaced to retrieve the transaction data?
- A The Get Transaction Item activity in the Get Transaction Data state
- Q Which argument in the Process workflow should hold the business context information?
- A In-Transaction Item.

Q If TransactionData is Array of strings

what is the type for TransactionItem?

A String

Q Possible to use both tabular data for TransactionItem & Orchestrator assets?

A Yes. Assets are independent from queues

Q What is the workflow in the 'When' section of the Get Transaction Data test case?

A Get Transaction Data.xaml

Q What property should be changed so that automation is performed once some UI Elements are loaded in the screen after taking time?

A WaitForReady = Intuitive

WaitForReady = None → Does not wait for target to be ready  
" = Interactive → When only a part of app

is loaded. App says it's ready

" = Complete → Waits for entire app to be loaded

Q Which activity is designed to pause the execution until a form task is completed or resumed?

A 'Wait for form task & Resume'

Q Regex - regular expression of address

A  $\backslash d \rightarrow$  Any number from 0 to 9  
 $\backslash w \rightarrow$  All word characters (a-z, A-Z, 0-9 and underscore)  
 $\backslash W \rightarrow$  Non word characters  
 $\backslash D \rightarrow$  Non digit characters  
 $\backslash s \rightarrow$  white spaces including spaces, tabs & return

Q When we check mark Add Headers in a DataTable property, is the headers counted as a row?

A No

Q StrA = Nothing  
StrB = "test"

A StrA.Contains(StrB)

StrB.Contains(StrA)

Null Reference Exception

Argument Null Exception

Q If a developer wants to use a variable of type UI Element for click activity, which property must be configured?

A Element

Q Throw activity without try catch is there in a file run through the orchestrator. Result?

A Job is completed with a "Faulted" State

Q First Row of "ID" column in DT to database?

A DT.Rows(0).Item("ID")

Q Value to be set to update the "MaxNumberOfResults" property to get all results?

A ; zero

Q Which activity should be used before the Get Text Activity to ensure the target element can be extracted after 20 seconds loading?

A Wait Attribute

None → Only wait for UI element

Interactive → Target app is ready even when elements are loading

Complete → Everything is loaded.

Start from Page 7

Q

A developer has set custom values for the Delay Between Pages MS property in the Activity Project Settings. Which activity can be impacted?

A

Extract Structured Data

Q

What happens when a selector in a click activity does not match any ~~the next~~ element?

A

Executes the next activity

Q

Can we put Range = " " in PDF Activity

A

No. But we can do it in excel Range

Q

Output of Extract PDF Page Range Activity is a string?

A

No. It is also a PDF.

For 'Read PDF text' Activity, the output is a string.

Q

Input for read range (PDF) can be:

"7-8", "15-End", "All", "3"

Q Correct execution sequence of the parts in a State Activity?

A ① Entry Section

② Exit Section

③ Transition Trigger Action

④ Destination State

Q What is a timeout?

A The max<sup>m</sup> amount of time that we wait for a selector to appear.

Q If 'noOfRetries' in the retry scope activity is left empty, how many times will the activity run?

A By default it runs 3 times.

Q Which activity must be avoided to run in a background window?

A Input dialogue Activity

Q If MaxRetryNumber is 2 in config in RRF queue. What is the number of retries?

A 3 → Default for queue in RRF

Q Add. New System . TimeSpan (1,0,0,0)  
What does this mean?

A Adding 1 day

Q Advantage of REF Performer process?

A Multiple ~~process~~<sup>robots</sup> can run the same process with a single queue

Q When an Application level Exception is encountered, which type of exception is caught in the RE framework by default?

A System . Exception

Q What does '+' mean in Regex.

A At least 1 or more

Q You want to compare two files in the same project with Ctrl. What functionality?

A Compare Files

Entry → Trigger/conditions → Exit → Trigger Action

Q What is the correct sequence of steps the developer should take to debug an error in a selector and remedy the issue?

- A
- ① Check the log for error location and navigate to the Activity with the exception
  - ② Update the Selector causing the exception to make it more dynamic and robust
  - ③ Validate the Selector & add a breakpoint at the Activity
  - ④ Run in Debug mode to ensure the process runs without the exception

Q Preferences → Orchestrator Settings → Logging ]  
Selected As Trace ↴

logs of which level will be sent to Orchestrator?

A Trace & above

Q In Orch. queues, each queue item contains two ItemInformation values. How can the values be extracted from the variable?

A Use the Specific Context property and supply the name of the field as key

Q A developer used for RFP to create a performance process. In which State is the queue item states updated?

A Process Transactions & Get Transaction States.

Q Possible activities in condition of Policy Scope

A Element Exist, IsMatch, CheckTrue, CheckFalse

Q Advantage of RFP Dispatch

A ① Ensures all data is in similar format & that it can only be added to one queue

② Prepares the data in a common format in queues.

Q Priority of queues

A High priority with latest deadline  
Normal priority with latest deadline  
Low priority with latest deadline

High priority with no deadlines  
Normal " " " "  
Low " " "

Q

Explain Trim()

A

Trim() - Removes all leading & trailing white spaces characters from the current string

Trim(char[]) - Removes "set of characters specified in an array from the current string

Trim (char) - Removes instances of a character from the current string

Maman Sagar