UiPath

Analysis – Business, RPA Manager, PRA COE, Business Analyst

1. BOT Intake
2. Analysis
3. Process Walkthrough – Business, Business Analyst

PDD – Process Definition Document

PDD Review.xlsx

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| S.No | Step Name | Query | Who Responsible | Status |
|  |  |  |  |  |

Design

1. Design – RPA Developer  
     
   Solution Design Document – Approval/Signoff – Requirement Freeze

Development

1. Development
2. Unit Testing
3. Integration Testing

Testing

1. UAT Deployment
2. System Test (UAT)

Dev – UAT - Prod

Production

1. Production Deployment
2. Production Dry Runs
3. Hypercare
4. Live

3 Components  
  
1. Studio – System

2. Assistant – System

3. Orchestartor – Web application

2 kinds  
  
Attended & Unattended

Public Cloud – Learning – 1 attend , 1 unattended, 1 developer 2023.4.3

Enterprise – Organization – Silver, Gold, Diamond – 2021.10.4

Debug File – Run the highlighted file in debug mode

Run File – Run the highlighted file in normal mode

Debug – Run the Main file in debug mode

Run – Run the main file in normal mode

Workflow / Subtask / Task

Sequence -

Flowchart -

State Machine

Workflow

UiForm

Global Handler

Main.Xaml – Start point of BOT – Run/Debug

Modules – Workflows

Joining a google meet

1. Get Your Credentials
2. Log into Gmail
3. Check Available meetings
   1. No meetings warning
   2. Fetching multiple meetings
4. Ask you to select meeting
5. Join Meeting



UiPath.Database.Activities

UiPath.WebAPI.Activities – JSON/XML/API

UiPath.Form.Activities – UiPath Forms

Default :   
System, Testing, Mail, Excel & UI

Variable Types

Boolean – True/False

Int32/Integer – 1/2/40/-20/-50

String – “shiva145()dprohjp” / “iuhgo oirgij\_iufrhgio-ijbgi”

Object –

Data Table – Rows & Colo

Array – {1, 2, 3}/{“adgn”,”dngo”,”jgn”}

Conditions & Loops

Condition – IF Else

IF 🡪 Then & Else

Condition is True 🡪 Then

Condition is False 🡪 Else

Loops

* For Each – Defined data, Array/List/DataTable/Table Rows/Table Columns/Files/Folder/  
  Mails
* While – Undefined , condition
* Do While - Undefined , condition
* Repeat Number of Times – Number

1 + 1 = 2

“shiva” + “Rama” = “shivarama”

1 + “Shiva” = Error

“1” + “Shiva” = “1Shiva”

“1” + “ “ + “Shiva” = “1 Shiva”

Break -   
Continue –

Loop 10

Step1

Step2

If loop=5 then Continue

Step3

Loops steps until the condition met

While  
  
- Check the condition if – true

Loop

Array (Int)

Arry(String)

Array (Variable Type)

Set of data

{1,34,25,678,857,46436,46} – Array of integers of length 7

{“shiva”,”Ram”,”Seshu”,”Bala”,”Praveen”,”krishna”} – nameArray

nameArry[0]=”Shiva”

{{1,2,3},{4,5,7},{6837,409,95}} – Array(Array(int)) – mutiArray

multiarray[0]={1,2,3}

multiarry[0][1] = 2

{1,2,3}[1] = 2

Switch – Parameter

Case 0

Case 1

Case n

Default

Switch - MathOperation

Case Add

Step1

Step2

Step3

Case Sub

Step 1

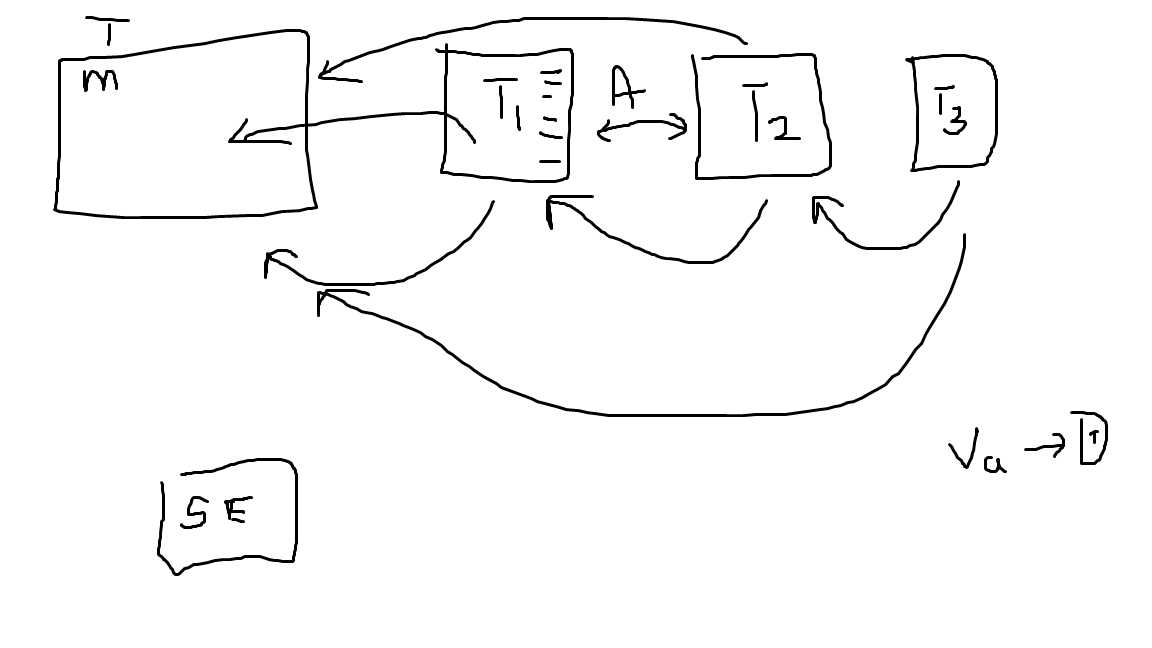
“Shiva” Not equal to “shiva”

SHIVA SHIVA

True & true

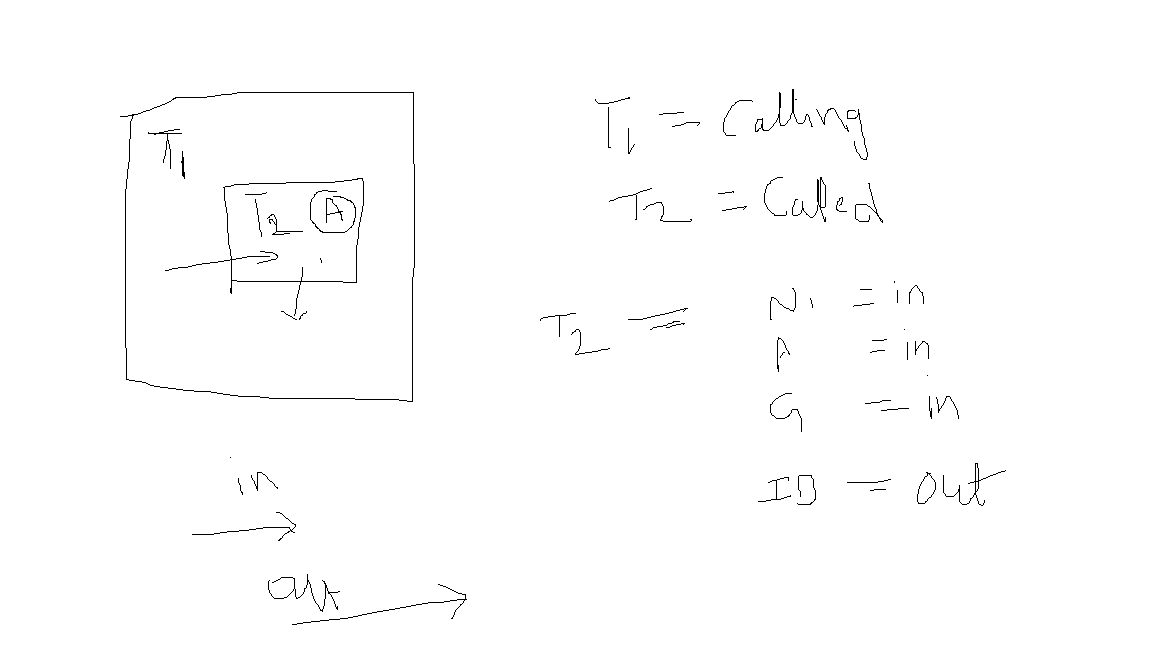
11-May-2023

11-MAY-2023



Invoking the Workflow

Arguments

1. Called Task
2. Calling Task
3. 
4. In Argument : T2 is requesting input from T1
5. Out Argument : T2 is sending output to T1
6. Inout Argument : T2 is requesting input & modifies it and sending the same as output to T1

Main🡪T2 🡪 T3🡪T4

1. T2 will get your name
2. T3 will get your age
3. T4 will get your gender
4. Main will display all 3 information

Data Table

Data Row

DataTable -

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **FName** | **LName** | **Age** |
| 101 | Shiva | K | 30 |
| 102 | Praveen | Seshu | 29 |
| 103 | Bala | K | 29 |
| 104 | Krishna | R | 28 |

DataRow

DataTable.Rows.Count = 4

DataTable.RowsCount = 4

DataTable

1. Manual of creation data table
2. Excel data
3. Web application data

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Email Subject | Process Status | Email From | Email To | Email Time | Email Type | Remarks |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |

1. Reading
2. Writing

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **ID** | **FName** | **LName** | **Age** |
| Row 0 | 101 | Shiva | K | 30 |
| Row 1 | 102 | Praveen | Seshu | 29 |
| Row 2 | 103 | Bala | K | 29 |
| Row 3 | 104 | Krishna | R | 28 |
| Row 4 | 105 |  |  |  |

1. Looping each row and get required info – For each row in data table

Datatable.Rows(1)(“ID”) = 102

Datatable.Rows(1)(0) = 102

Datatable.Rows(2)(3) = 29

Cell Address  
  
A1 B4 D7

Range

A1:B3

ExcelReference.Sheet(“SheetName”).Cell(“A1”)

ExcelReference.Sheet(‘SheetName”).Range(“A2:H10”)

Exercise 1 :

1. BOT need to ask you to select the file
2. BOT Reads data from sheet ‘Data’
3. BOT loop through each record
4. As per the age BOT will add the record to respective sheet (Below)
   1. Age below 40
   2. Age 40 to 50
   3. Age 50 plus

UI Automation

User Interface Automation – Visible windows

1. Web Application – Chrome / Edge – Remote server – via Internet

* Chrome /Edge/Firefox/Any browser
* Remote server
* Internet
* UiPath Extension
* Can able to see the code written by developer
* We can see selector manually / via uipath

1. System Installed application / Desktop application / Standalone application

* Not possible to see Selector manually – only via uipath
* No Extension

Ui Element

UI Selector - Like query to identify the element

* 2 Types of Automation
  + Automatic Recording – Create automation/code automatically - It will not record the validation
  + Manual UI Automation – You need to write the code for each step