1. Planning (Intake)
   1. Go or No-Go Call – Business & RPA Management – 80%
   2. Feasibility Check - RPA Management & RPA Solution Archichet/Consultant – 100%
2. Designing
   1. PDD – Business Analyst
      1. High Level Process Flow
      2. In Scope
      3. Out of Scope
      4. Exception Emails
      5. Access Request
   2. PDD Review – Developer & Business Analyst & Business
   3. SDD – Developer
      1. To Be Process Flow (Low Level Process Flow)
      2. Process in detail
      3. Process diagram
      4. Logging
      5. High Level test case
      6. Exception handlining
      7. Alerting and Monitoring
      8. Environment
      9. Schedule
   4. SDD Review – Business & Business Analyst
   5. Test Case Creation – Testing
   6. Dev Sign off – Dev Freeze/ Requirement Freeze
3. Development
   1. Unit Testing
   2. Integration testing
   3. Code Review – RPA Team
   4. UAT Sign off
4. UAT
   1. User Acceptance testing
   2. Prod Sign-off – Business
5. Production
   1. Dry Run
   2. Hypercare – 2 weeks
   3. Live – Support team

Business/Client

Business Analyst

Developer

Tester

Support Team

RPA Architect

RPA Manager

Day 6 Practice

1. BOT Need to validate text file is available or not
2. BOT Read the text file and get path of another file
3. Validate that new file is available or not
4. Read the data from new text file and write to another text file by appending you name

For Each 🡪 Defined set of array

Do while – Loop and the check the condition

While 🡪 Check the condition and then loop --Condition satisfies

Repeat number of times

Break : Will break the loop and come out of the loop

Continue : will stop the execution of remaining steps and continue the loop

Step1 to Step 5

Continue

“Divide” not equal to “divide”

DIVIDE 🡪 DIVIDE

divide 🡪 divide

Arguments - > Pass data between tasks/subtasks/workflows

Three arguments

In🡪 To Get data into the workflow

Out 🡪 To Send data out from the workflow

In/out 🡪 To Get data , modify and send out from the workflow

Naming Convention:

in\_VariableName

out\_VariableName

io\_VariableName

variableName

in\_VariableName

How to call one workflow in another workflow

1. Calling Workflow - Main
2. Called workflow – SubTask1 & SubTask2

In 🡪 Calling Task to called Task

Out 🡪 Called Task to Calling Task

In/out 🡪 Both the ways

1. Input Dialog to get Text file path
2. Read Sub workflow
3. Success – Write
   1. Input dialog to get Text File path
   2. Write Sub Workflow
      1. Success – Stop
      2. Failed
         1. Ask user to retry
            1. Retry Yes- Step 3.a
            2. Retry No - Stop
4. Failed – ask user to retry
   1. Retry Yes – Step1
   2. Retry No – Stop

Input Dialog

If

File Path Exists

Browser for file

Arguments

Flow chart

Logging

Naming convention

DataTable & DataRow

Rows and Columns

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ColumnNum** | **0** | **1** | **2** | **3** | **4** |
| **RowNum** | **ID** | **FName** | **LName** | **Age** | **Class** |
| 0 | 1 | Shiva | K | 30 | 10 |
| 1 | 2 | Ram | K | 20 | 9 |
| 2 | 3 | Krishna | K | 25 | 8 |

DataTable.Rows.count = 3

DataTable.Row(2).item(3) = 25

DataTable.Row(2).item(“Age”)=25

DataTable.Row(1).item(“FName”)=Ram

DataRow – {4,”Praveen”,”S”,26,9}

DataRow(1) = Praveen

DataRow(3)= 26

Environment.currentDirectory = BOT Root Folder

C:\Users\Shiva\OneDrive\Desktop\Shiva\UiPath Coaching\Batch 2\UiPathTrainingDec2022\UiPathTrainingDay11**\Math.xlsx**

**A4:C7  
  
A4, B4, C4**

**A5, B5, C5**

**A6,B6,C6**

**A7,B7,C7**

**A**

**3 options for OPEN & Close**

**Open :**

1. **Never -> Never open the calculator**
2. **If Not Open 🡪 If calculator is not opened**
3. **Always 🡪 For every run, BOT will open calculator**

**Close:**

1. **Never 🡪 Never close the calculator**
2. **If app Browser opens it 🡪 BOT opens the calculator, then only it will close**
3. **Always : close the calculator**

UiExplorer

Strict Selector: Identify Single

Fuzzy Selector : May identify multiple

Image : Least

Validation should successful

Selector

Fine Tune Selector

1. Wild Characters
   1. \* - To Replace multiple characters
   2. ? – To Replace single character
2. Variable Replacement

<a href="https://mail.google.com/mail/u/0/#starred" target="\_top" class="\*" aria-label="Starred" tabindex="-1" draggable="false">Starred</a>

Id=”1234”

Id=”3456”

Id=”\*”

Id=”Tab1”

Id=”Tab2”

Id=”Tab3”

Id=”Tab?” id=”\*”

Manual Work :

1. Create a Excel sheet with 3 columns “Num1, Num2, Operation”
2. Provide values

BOT Work:

1. BOT Ask you to choose the excel file
   1. If selected file excel or not
      1. If excel proceed
      2. If not ask user to select again
2. BOT Need to read all values into data Table
3. BOT Need to iterate each row in data table
4. BOT Need to do the math operation using calculator
5. Update the result back to excel

PDF Activies

1. PDF Data Extraction
   1. Group Data Extraction
      1. Text
      2. Images
   2. Specific Filed
      1. Text
2. PDF Other imp Activities
   1. Merging PDFs
   2. Converting PDF to image
   3. Count Pages

\*\*\* PDF Activities 🡪 UiPath.PDF.Activities

String Methods

Convert integer/object/boolean to string - .ToString()

Convert to Upper Case : .ToUppet

Convert to Lower Case: ToLower

If Any string contains a word : String.contains(Word)

Ex:

Message: “Hello World ! How are you ?”

checkWord = “How”

Message.contains(checkWord)- Ture

Message.contains(“How”) – True

Message.contains(“how”) – False

Message.ToLower().contains(“how”) – True

Space is denoted as underscore \_

\_How\_Are\_you?\_\_\_\_

Remove space at end = Message.trimend() = \_How\_Are\_you?

Remove space at beginning = Message.trimStart() = How\_Are\_you?\_\_\_\_

Remove all spaces = Message.trim = HowAreyou?

Split String  
  
Hi, Shiva, Rama, Krishna, Seshu, Praveen

String.split(“,”) (1)= Shiva

Replace

Message.Replace(“word in string to replace”,”Word to be replaced”)

Message.Replace(“Old Word”,”New Word”)

Hi, Shiva, Rama, Krishna, Seshu, Praveen

Message.IndexOf(“Rama”) = 11

Hi, Shiva, Rama, Krishna, Seshu, Praveen

Message.substring(3,6)= \_Shiva,

10 Emails 🡪 Inbox

Processed Folder, Inbox

Exception : Anything that interrupts(Stops) the process/BOT Flow is called Exception / Error

Step 1, 2 , 3, 4 , 5, 6, 6.1, 6.2, 7, 8

System Exception – Any failure due to system behaviors (Un Expected)

1. Submit button is not available in web application
2. Excel is not responding

Business Exception – Anything that not follows the business rules

1. Email doesn’t contain attachments

Step 1, 2 , 3, 4 , 5, 6, 6.1, 6.2, 7, 8

General Exception – Top most

NullPointer Exception

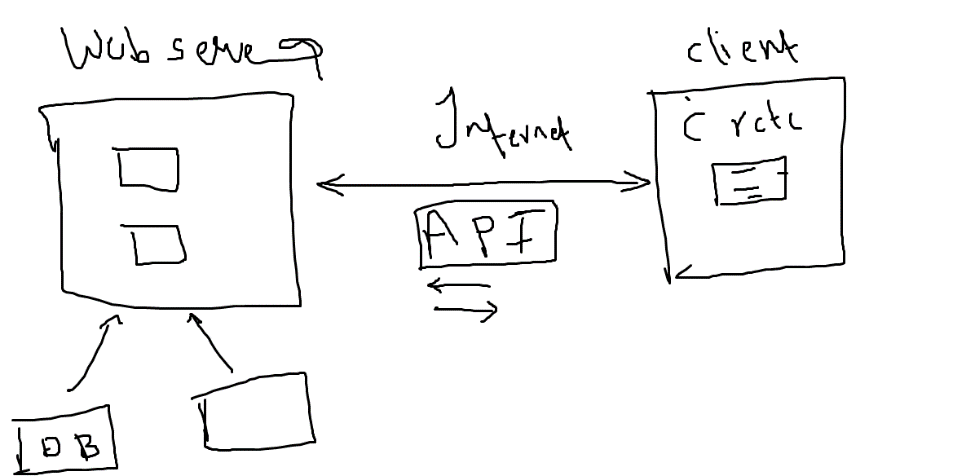
InvalidArgument

IOExcption

…..

Try Catch Activity

API



GET  
POST

DELETE

UPDATE

Method – GET/PUT/POST/DELETE/UPDATE

Headers – API Key, Security Key, Credntials

Parameters – Name, Account Number, DOB

Body – Account Balance, Statement, Last 5 Transaction

Response Code –

200 – Success

400 – Bad Request

500 – Server issue

APILayer

Response Body – All required details/Error details

API KEY : KSXb1KIJCDbZ56VeG55iCY9hFxetMGbv

API Method : GET

API URL : <https://api.apilayer.com/exchangerates_data/convert>

Headers : apikey: KSXb1KIJCDbZ56VeG55iCY9hFxetMGbv

Parameter

Amount: 10000

From: INR

To: USD

Body:

JSON – Java Script Object Notation

XML – Extensible Markup Language

Dictionary (Key – Value)

Key Value pair

1. Input to the bot
2. Output from API calls Web Application Load

.json and .xml

ReadTextFile

Format of Data

JSON:

{

“College” : “SRKR Engineering College”,

“City” : “Bhimavaram”,

“ZipCode” : 530167,

“Students” :

[

{

“ID” : 101,

“Name” : “Shiva”,

“Gender” : “M”,

“Age” : 30,

“Branch” : “IT”

},

{

“ID” : 102,

“Name” : “Ram”,

“Gender” : “M”,

“Age” : 29,

“Branch” : “CSE”

}

],

“University” : “AU”

}

XML:  
  
<College>

<CollegeName>SRKR Engineering College</CollegeName>

<City>Bhimavaram</City>

<PinCode>504107</PinCode>

<Students>

<

</students>

</College>

Asset – Store Data

4

Text, Interger/Number, Boolean, Credential

Queues  
  
1.Dispatcher – Add all transactions to queue

2.Performer – Perform the transaction