

RAJIV GANDHI UNIVERSITY OF KNOWLEDGE TECHNOLOGIES

(catering the Educational Needs of Gifted Rural Youth of AP)

RK Valley, Kadapa (Dist.), Andhra Pradesh, 516330

Department of Computer Science And Engineering

MAJOR PROJECT UNDER THE GUIDANCE OF
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Role : Robotic Process Automation(RPA)
Intern

Company : Algonox

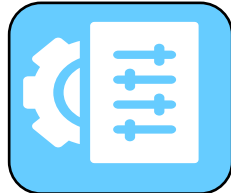


ALGONOX

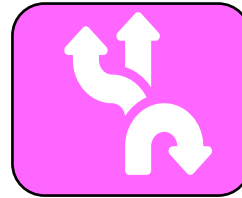
Algonox is founded by accomplished technologists with the idea of empowering organizations with emerging technological advancements. Established in early 2017, we are young and growing at a rapid pace in Banking & Financial Services, Retail, Pharma domains and also industry-agnostic sectors like finance & accounting, Human resources, etc. Our core vision is to provide seamless Cognitive Automation solutions & capabilities to enterprises across industries & domains and be a part of their digital transformation.



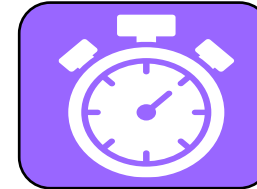
Scalable: Built on Microservices architecture, enabling horizontal scaling and quick new features addition.



Configurable: Low code and configurable through and through- from user layout to process workflows.



Flexible: Offers On-prem, On-cloud, Managed service deployments.



Fastest ROI: 4 week deployment with highest yield in ROI.



AGENDA

- Introduction to UI Path Studio
- Automation Workflow in UI Path Studio
- Advantages
- Activities in UI Path Studio
- Tasks
- Conclusion
- Future Enhancement



Introduction To UiPath Studio

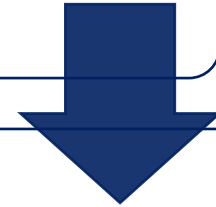
UiPath Studio is a powerful, user-friendly platform that enables businesses to automate a wide range of repetitive tasks and workflows. This comprehensive introduction will explore the key features, capabilities, and benefits of UiPath Studio, equipping you with the knowledge to harness the power of Robotic Process Automation (RPA).



Automation Workflows in UiPath Studio

Design

Visually create automation workflows.



Build

Implement complex business logic and integrations.



Deploy

Publish and schedule automations for execution.



ADVANTAGES

- Improved Efficiency and Productivity
- Better accuracy and quality
- Cost Savings and ROI
- Scalability
- Flexibility



Activities in UiPath Studio

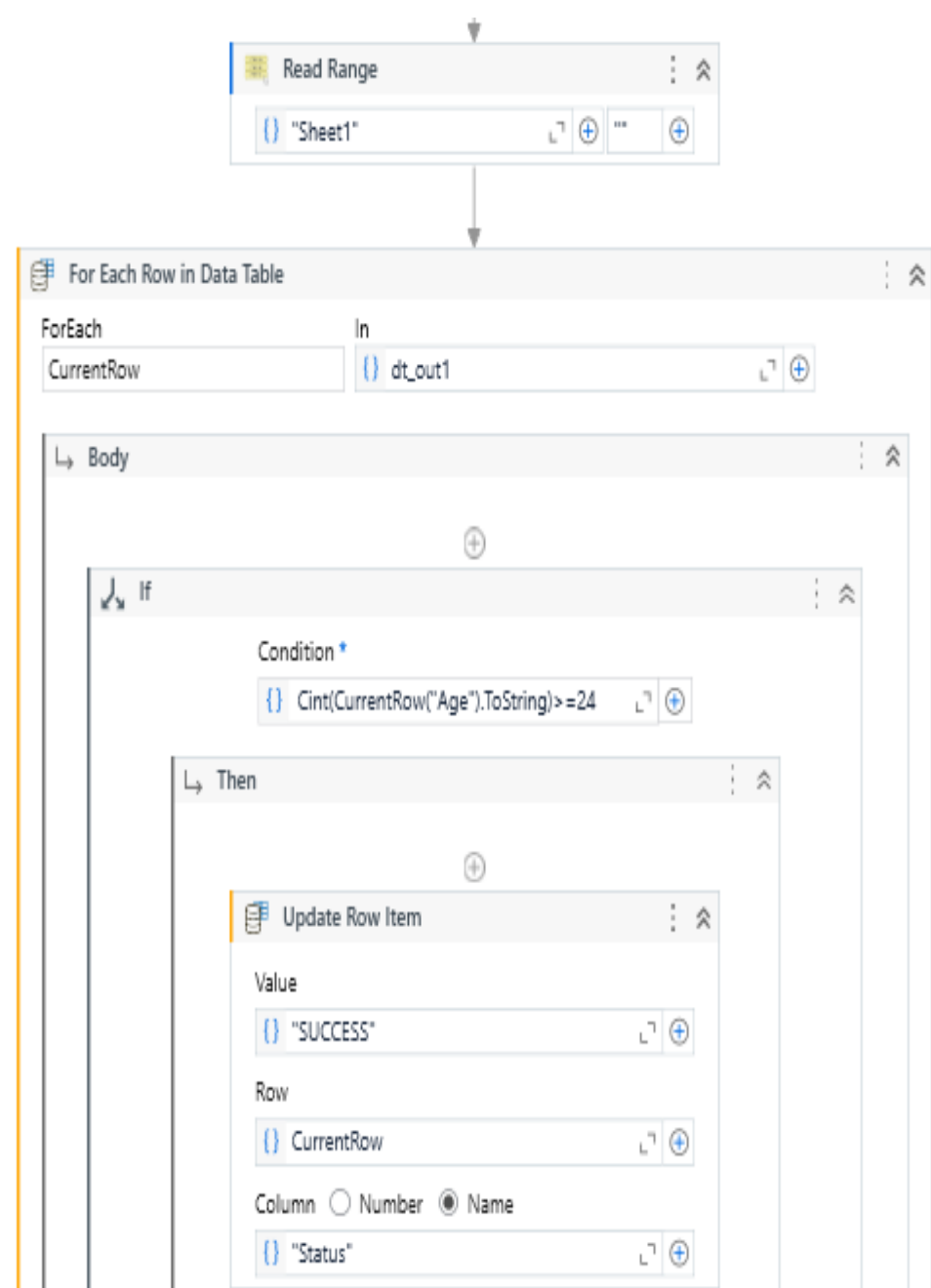
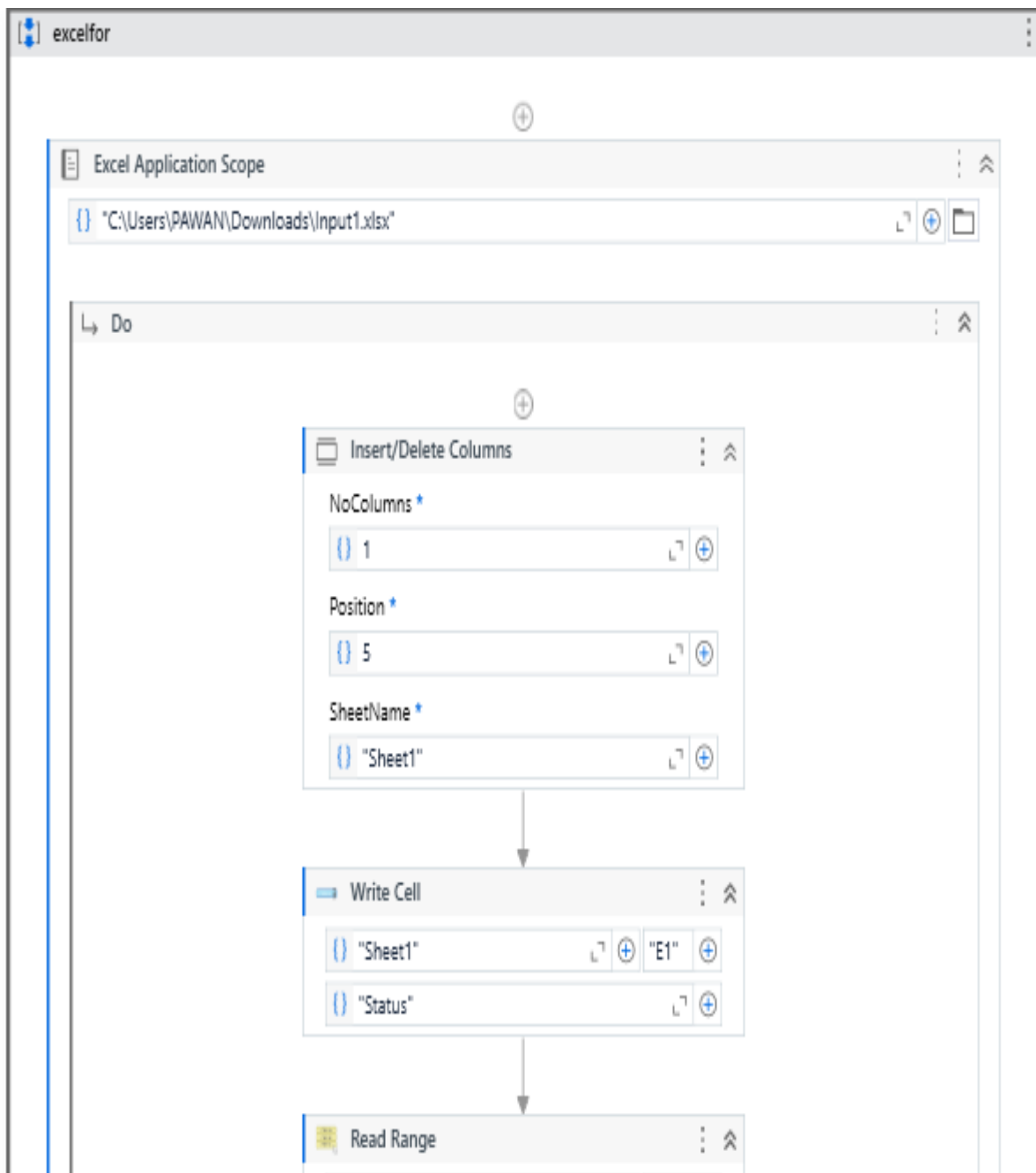
- Message Box
- Input Dialog
- If
- Else if
- For Each
- Sequence
- Flow Chart
- Log Message
- Click
- Write cell
- Read range workbook
- Add data column
- Update row item
- Filter Data Table
- Excel application scope
- Insert or Delete Column
- Assign
- Multiple Assign

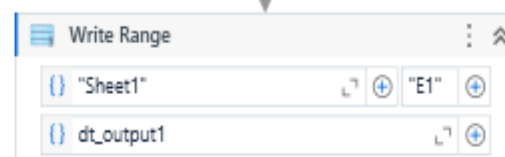
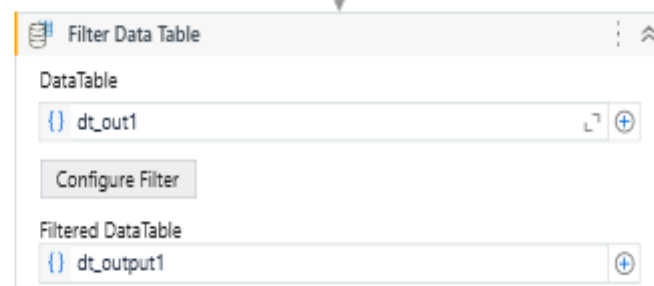
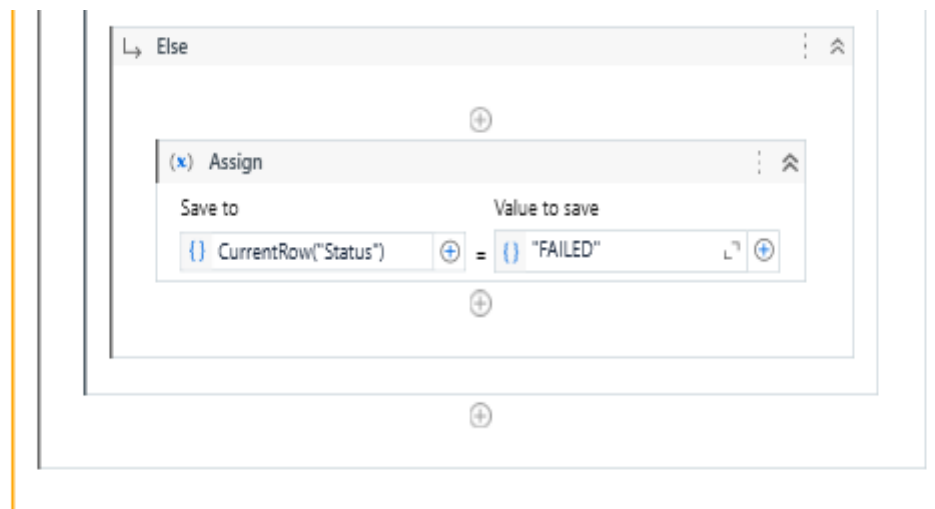


TASK-1

- We have an Excel sheet with four columns Name, Id, Age, and Address. We have to add a status column to the sheet. Based on age we have to update the values in the status column.
- **Condition :**
- $\text{Age} \geq 24$ “success” otherwise “failed”.







TASK-2

- We Have an Excel sheet with four columns Name, Age, Paper1, Paper2. we have to add a total column and remarks column based on marks in Paper 1, and Paper 2. We have to print the output with six columns in another sheet.

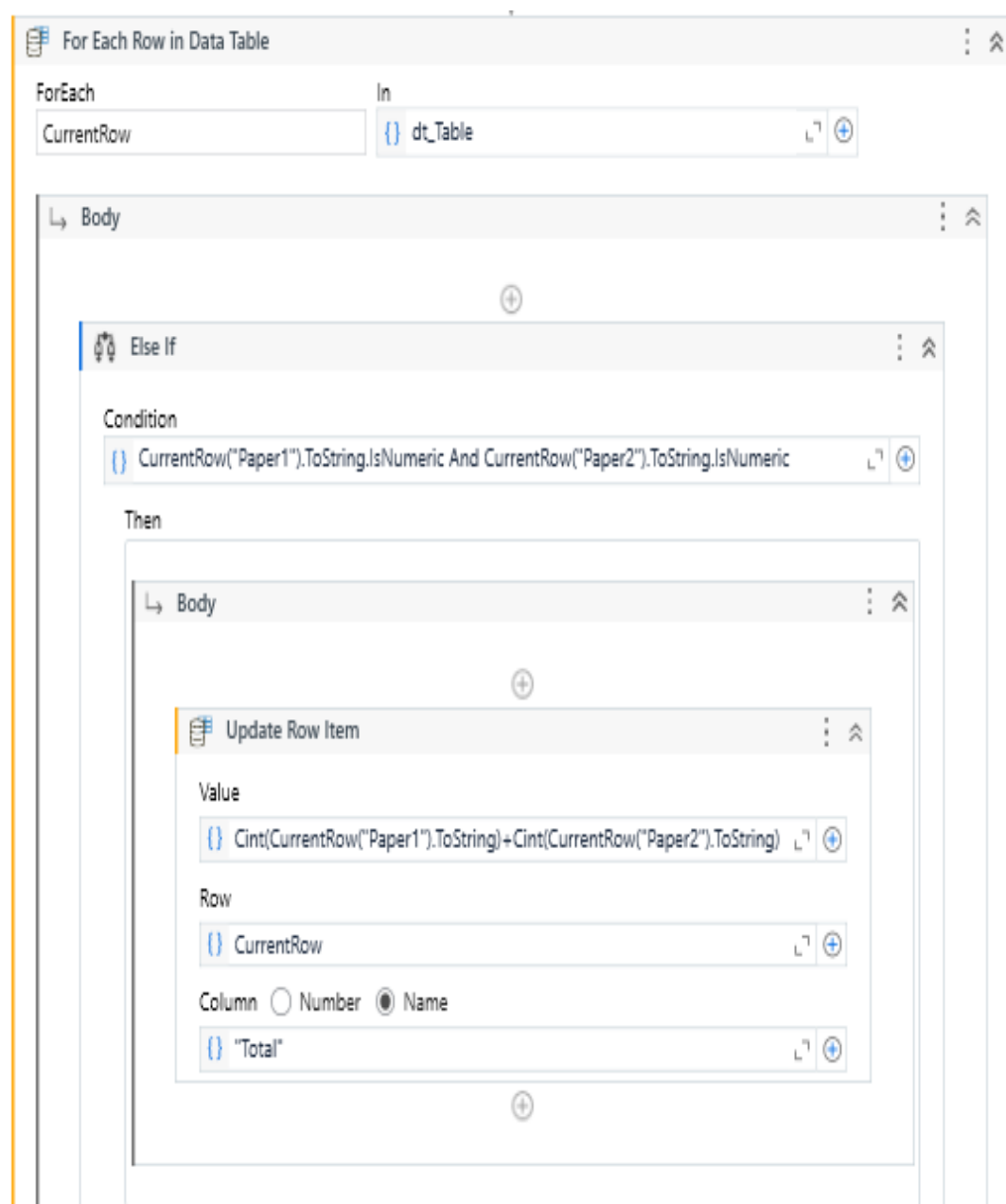
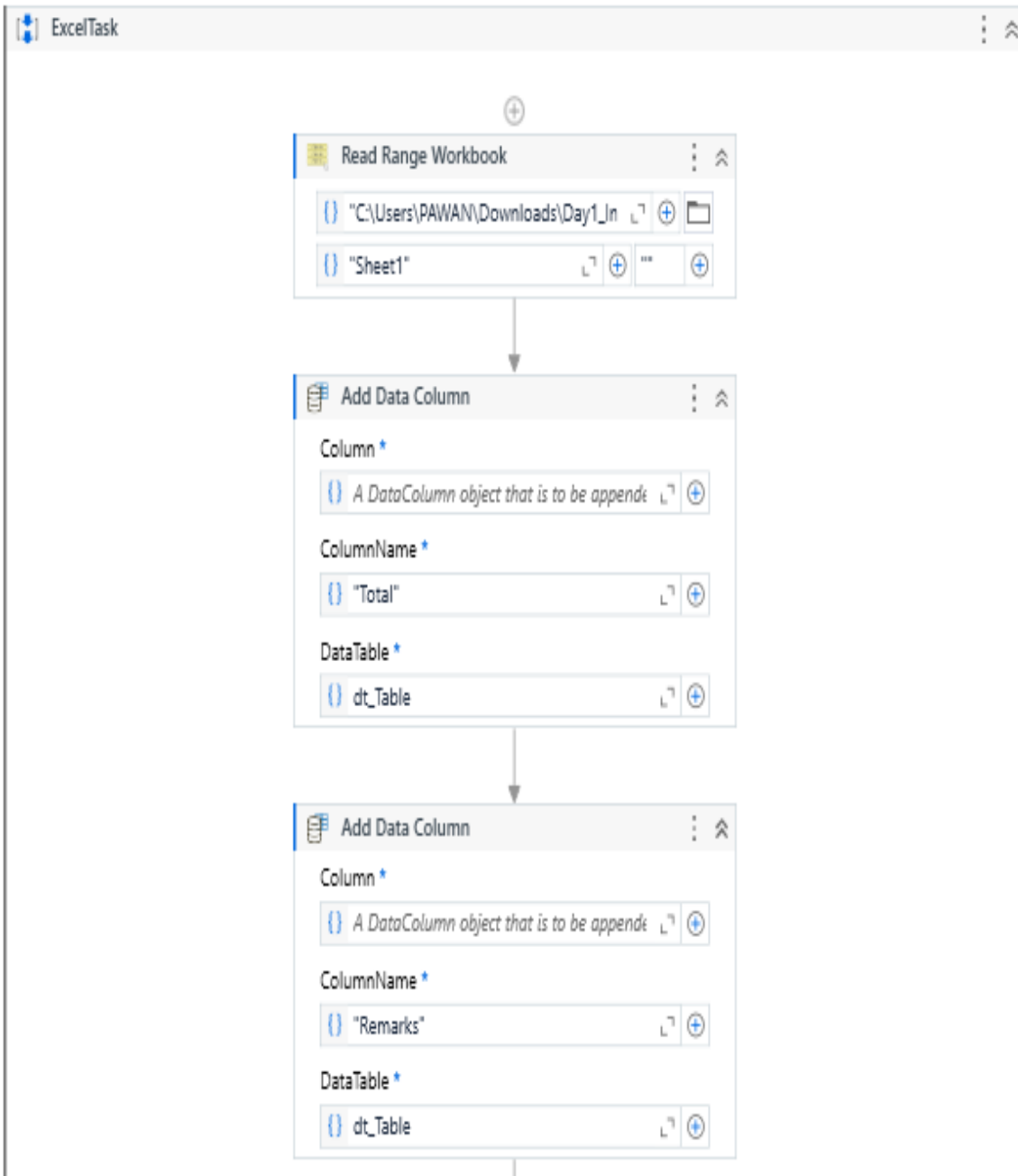
Conditions:

If paper1 and paper2 both columns contain marks we should add a total of two paper marks and update in total column.

If paper1 is null or contains integers then we have to update in remarks invalid marks in paper1 and the total is paper2 marks.

If paper2 is null or containing non integers then we have to update in remarks invalid marks in paper2 and the total is paper1 marks.





Else If - Condition

{ } Not(CurrentRow("Paper1").ToString.IsNumeric) And CurrentRow("Paper2").ToString.IsNumeric

Then

Body

Update Row Item

Value

{ } CInt(CurrentRow("Paper2").ToString)

Row

{ } CurrentRow

Column ☐ Number ☒ Name

{ } "Total"

Update Row Item

Value

{ } "Invalid marks in paper1"

Row

{ } CurrentRow

Column ☐ Number ☒ Name

{ } "Remarks"

Else If - Condition

{ } CurrentRow("Paper1").ToString.IsNumeric And Not(CurrentRow("Paper2").ToString.IsNumeric)

Then

Body

Update Row Item

Value

{ } CInt(CurrentRow("Paper1").ToString)

Row

{ } CurrentRow

Column ☐ Number ☒ Name

{ } "Total"

Update Row Item

Value

{ } "Invalid marks in paper2"

Row

{ } CurrentRow

Column ☐ Number ☒ Name

{ } "Remarks"

Else

Body

Update Row Item

Value

"Invalid marks in paper1 and Paper2"

Row

CurrentRow

Column ☐ Number ☒ Name

"Remarks"

Filter Data Table

DataTable

dt_Table

Configure Filter

Filtered DataTable

dt_output

Filter Data Table

DataTable

dt_Table

Configure Filter

Filtered DataTable

dt_output

Write Range Workbook

"C:\Users\PAWAN\Downloads\Day1_In

"Sheet2"

dt_output

Message Box

Text

"Task Completed"

TASK-3

- Read the Excel sheet and store it in the data table.

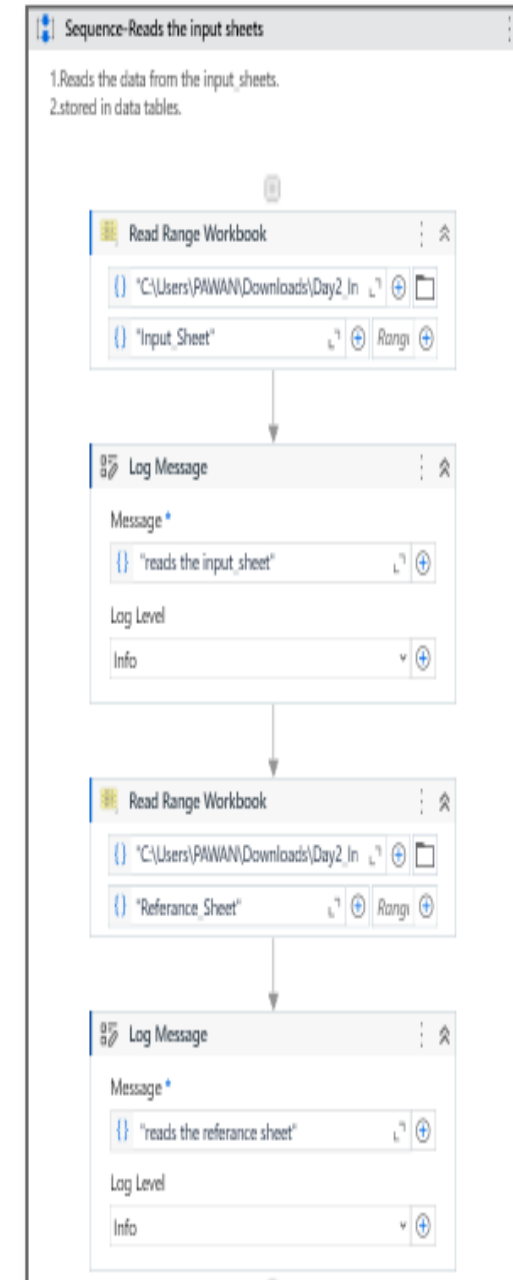
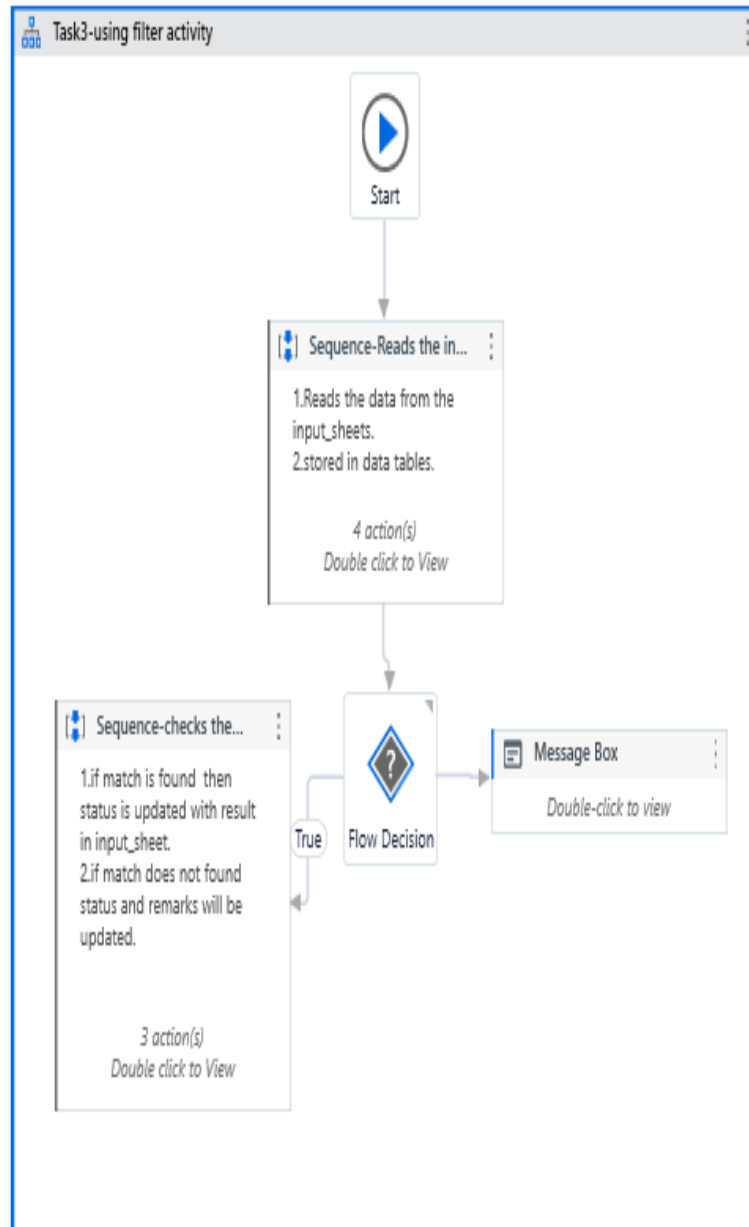
Checking the existence of mandatory columns in sheet 1 and sheet 2 we have to add status and remark column in sheet1.

Conditions:

If columns exist, check the reference id's in sheet1 & sheet 2 if the reference ID in sheet1 matches the reference ID in sheet2 then update the status column in sheet1 based on result column in sheet 2.

If Reference id's are not match then update the Remarks column in sheet1 with the value Reference id is missing.





Sequence-checks the match found or not

1.If match is found then status is updated with result in input_sheet.
2.If match does not found status and remarks will be updated.

For Each Row in Data Table

Data Table *

dt_table1

Item

CurrentRow

Body

Filter Data Table-filter the input sheets base...

DataTable *

dt_table2

Configure Filter

Filtered DataTable

dt_output

If

Condition *

dt_output.RowCount=0

If

Condition *

dt_output.RowCount=0

Then

Multiple Assign-update status and remarks when match is not found

Save to	Value to save
CurrentRow("Status")	"Failed"
CurrentRow("Remarks")	"Reference id is missir"

Add

Else

Assign-update status when match is found

Save to	Value to save
CurrentRow("Status")	dt_output(0)("Result")

(x) Assign-update status when match is found

Save to		Value to save
{ } CurrentRow("Status")	=	{ } dt_output(0)("Result")

Write Range Workbook-update output sheet

{ } "C:\Users\PAWAN\Downloads\Day2_In	
{ } "Output2"	Cell
{ } dt_table1	

Log Message

Message *

{ } "Data updated"

Log Level

Info



Conclusion

- Increased efficiency, reduced errors, and cost savings.
- Scalable automation across the organization.
- Streamlined workflows and improved productivity.
- It is user-friendly interface.
- UiPath Studio will undoubtedly play a central role in shaping the future of work and business operations.



FUTURE ENHANCEMENT

- Explore UiPath documentation and tutorials.
- Identify automation opportunities in your business.
- Start building your first UiPath automation project.
- Expanded Cloud Integration.
- Low-Code/No-Code Enhancements.



thank
you