EXPERIMENT - 9

Aim :- Implement a script that interacts with external data sources during the automation process.

Software Required :- Any RPA Tool.

Relevance of the Experiment :- This experiment to Effective inventory management is crucial for businesses to optimize resources, minimize costs, and meet customer demands efficiently. In this experiment, we aim to demonstrate the significance of Integrating automation with external data sources, such as Excel and databases, to streamline inventory management processes.
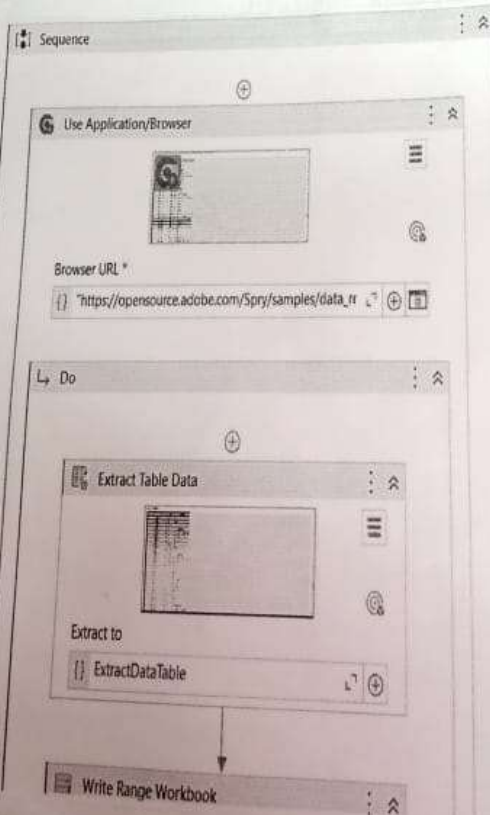
Description :- Utilize UiPath Studio to develop a workflow, read data from "Excel Application Scope", connect to a database, execute SQL queries, process data, and write back results, ensuring error handling for seamless automation, follow these steps :-

1. Install UiPath studio if you haven't already, download and install UiPath studio, which is an integrated development environment used for building automation workflow.

2. Open UiPath studio and create a new project.

Teacher's Signature:_____

Aim :- Implement a script that interacts with external data sources during the automation process.

Id	type	name	batter	topping
0001	donut	Cake	Regular	None
0001	donut	Cake	Regular	Glazed
0001	donut	Cake	Regular	Sugar
0001	donut	Cake	Regular	Powdered Sugar
0001	donut	Cake	Regular	Chocolate with Sprinkles
0001	donut	Cake	Regular	Chocolate
0001	donut	Cake	Regular	Maple
0001	donut	Cake	Chocolate	None
0001	donut	Cake	Chocolate	Glazed
0001	donut	Cake	Chocolate	Sugar
0001	donut	Cake	Chocolate	Powdered Sugar
0001	donut	Cake	Chocolate	Chocolate with Sprinkles
0001	donut	Cake	Chocolate	Chocolate
0001	donut	Cake	Chocolate	Maple
0001	donut	Cake	Blueberry	None
0001	donut	Cake	Blueberry	Glazed
0001	donut	Cake	Blueberry	Sugar
0001	donut	Cake	Blueberry	Powdered Sugar

Sequence

⊕

G Use Application/Browser

Browser URL *

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↳ Do

⊕

Extract Table Data

Extract to

{} ExtractDataTable ⊕

Write Range Workbook

3. Design the workflow by dragging and dropping activities from the activities panel onto the canvas.

a. Use the Excel Application Scope activity to indicate the Excel file you want to read from.

b. Use the appropriate database activity to establish a connection to your database.

c. Within the database connection scope, use the Execute only Query activity to run SQL query against the database.

d. Once you have fetched data from both Excel and the database, you can perform any necessary data manipulation or processing using activities such as For Each Row or Assign.

e. If needed, use the Write Range activity within an Excel Application Scope to write data back to an Excel file or use the appropriate database activity to insert/update data in the database.

4. Implement error handling mechanisms using Try-Catch blocks to handle exceptions gracefully.

5. Test your automation workflow thoroughly to ensure that it operates as expected.

6. Once you're satisfied with your automation workflow, you can deploy it to UiPath Orchestrator or run it locally on your machine as needed.

<u>Learning Outcomes :-</u>

(i) Develop proficiency in integrating UiPath workflows

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Write Range Workbook

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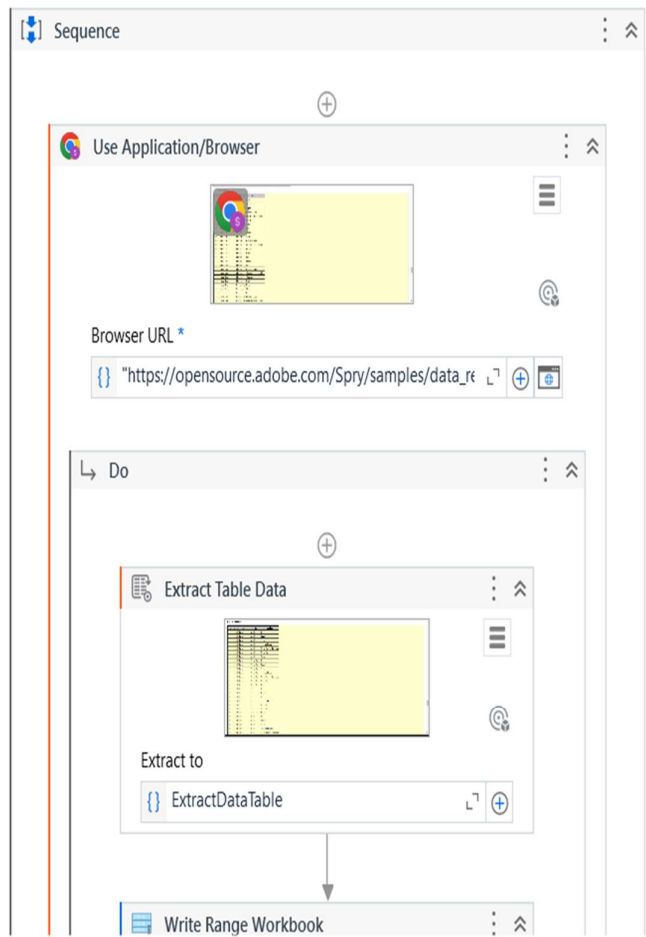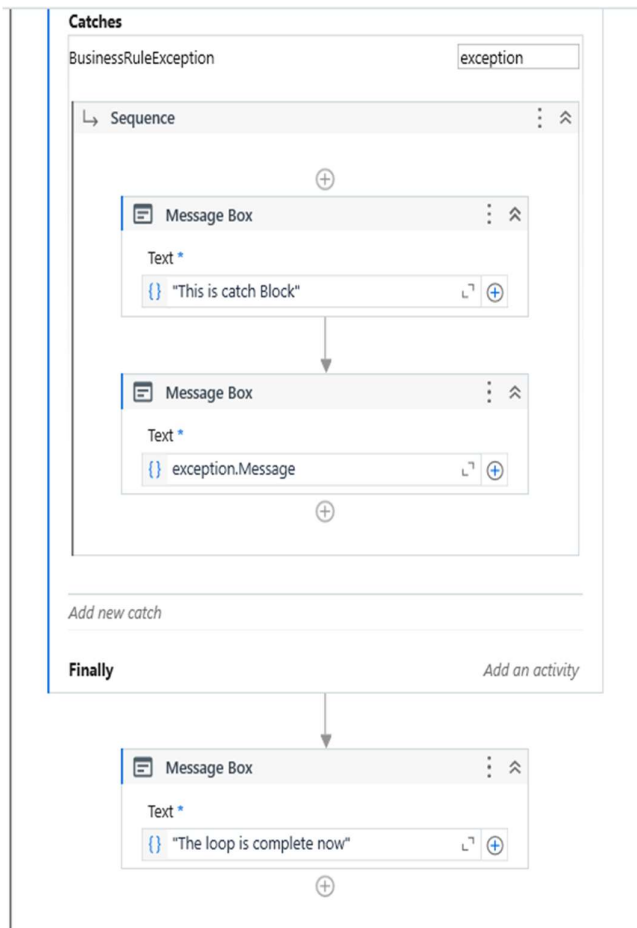|	A	B	C	D	E	F	G
1	id	type	name	batter	topping		
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6	0001	donut	Cake	Regular	Chocolate with Sprinkles		
7	0001	donut	Cake	Regular	Chocolate		
8	0001	donut	Cake	Regular	Maple		
9	0001	donut	Cake	Chocolate	None		
10	0001	donut	Cake	Chocolate	Glazed		
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13	0001	donut	Cake	Chocolate	Chocolate with Sprinkles		
14	0001	donut	Cake	Chocolate	Chocolate		
15	0001	donut	Cake	Chocolate	Maple		
16	0001	donut	Cake	Blueberry	None		
17	0001	donut	Cake	Blueberry	Glazed		
18	0001	donut	Cake	Blueberry	Sugar		

with external data sources.

(ii) Learn effective database connectivity and sql query execution within UiPath automation.

(iii) Learn to seamlessly integrate validated fund requests or notifications with backend systems, improving operational efficiency and reducing manual effort. in funds processing.

SCREENSHOTS:

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17	0001	donut	Cake	Blueberry	Glazed		
18	0001	donut	Cake	Blueberry	Sugar		

Catches

BusinessRuleException | exception

↳ Sequence

Message Box

Text *

{} "This is catch Block"

Message Box

Text *

{} exception.Message

Add new catch

Finally | Add an activity

Message Box

Text *

{} "The loop is complete now"

Sequence

Use Application/Browser

Browser URL *

{} "https://opensource.adobe.com/Spry/samples/data_re

↳ Do

Extract Table Data

Extract to

{} ExtractDataTable

Write Range Workbook

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Write Range Workbook

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"Sheet1"   Cell

ExtractDataTable