

Week 13 : Orchestrator

- ตั้งชื่อ Project ด้วย week13_รหัสนักศึกษา เช่น week13_62070001
- ในแต่ละข้อ สร้าง flow ด้วย เลขที่ข้อ_รหัสนักศึกษา เช่น 13.1_62070001
- บันทึก flow แต่ละข้อให้เห็นชัดเจนพร้อมกับ run ผลลัพธ์ แสดงผลลัพธ์ในแต่ละข้อ และบันทึกคลิป ตามรูปแบบ เช่น week13_62070001.mp4 (ใช้โปรแกรมบันทึกหน้าจอ)
- ส่งงานทุกข้อเป็น 1 Project รวมใน 1 folder ที่มี input, output ทั้งหมดในโปรเจกต์นั้นๆ ตั้งชื่อไฟล์ week13_รหัสนักศึกษา.zip เช่น week13_62070001.zip

Exercise 13.1: Publish a new version Bot to Orchestrator

Objective: To publish a new version of package to UiPath Orchestrator.

Learning Outcomes

After completion of this exercise you will get familiar with the following:

✓ “**Upgrade Processes**” function

✓ “**View Versions**” function

STEP 1: Make a change to **attendedBOT** project (put your name after "Highlight Test" such as "Highlight Test by Kanokwan")

STEP 2: Click the Publish button, add notes about the process in the Release Notes text box.

STEP 3: In the New Version text area, insert the version number.

STEP 4: Click Publish.

STEP 5: In **Orchestrator**, click **Packages** function

STEP 6: Click **Upgrade processes** function

NAME	DESCRIPTION	TYPE	PUBLISHED
BOT.test	BOT test	Process	a day ago
demo_orchestrator	for demonstrating how to control bot from orchestrator	Process	2 days ago
demo_orchestrator_attended	for demonstrating how to control attended bot from orchestrator	Process	2 days ago
demo_unattendedBOT	Blank Process	Process	a day ago

STEP 7: Select the process which needs an upgrade

Upgrade multiple processes

For each package, select which processes you would like to upgrade.

attended_BOT

Version: 1.0.5

☒ 1 processes can be upgraded

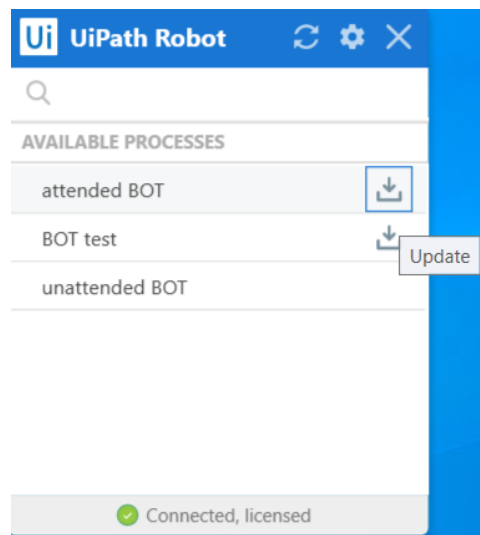
☒ v1.0.4 – KMITL_kanokwan_env

Default

CLOSE

UPGRADE

STEP 8: Select update



STEP 9: Run process

Outcome: A process with new version of package.

Exercise 13.2 : Asset in Orchestrator

Objective: To create an Asset of Credential Type in Orchestrator and display the credential asset username in Studio.

- Create a credential type asset in Orchestrator to store username and password
- Update asset details through Studio to a different value
- Store username in Output panel

Learning Outcomes

After completion of this exercise you will get familiar with the following:

- ✓ “Sequence” activity.
- ✓ “Get Credential” activity.
- ✓ “Set Credential” activity.

Algorithm

Step 1: START

Step 2: Create an **asset** named **UserDetail** in UiPath Orchestrator.

- Select the type of asset as **Credentials**
- Enter the value of the asset: Username: Amanda, Password: Amanda@123

← Add Asset

Asset name *
UserDetail

Type
Credential

Description
used in doing "Asset" exercise

Credential Store
Orchestrator Database

☒ Global Value

Username *
Amanda

Password *
Amanda@123

When the global value is enabled every robot will receive it, unless specifically overridden in the table below.

ROBOT	VALUE
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Optionally you can also add robot values.

CANCEL CREATE

Step 3: Create a new sequence in UiPath studio and use a **Message box** activity to display text “Hello: Testing Asset in Orchestrator”

Step 4: Use **Get Credential** activity below the message box and set its asset name to **UserDetail**.

- Username property: new variable “username”
- Password property: new variable “password”

Step 5: Use **Set Credential** activity below the Get Credential activity and set its credential name to **UserDetail**, and

- Username property: put your name in English such as Somchai
- Password property: : your name in English@456 such as Somchai@456

Step 6: Use **Get Credential** activity below the Set Credential and set its **AssetName** property to **UserDetail**, Password property to password, and Username property to username

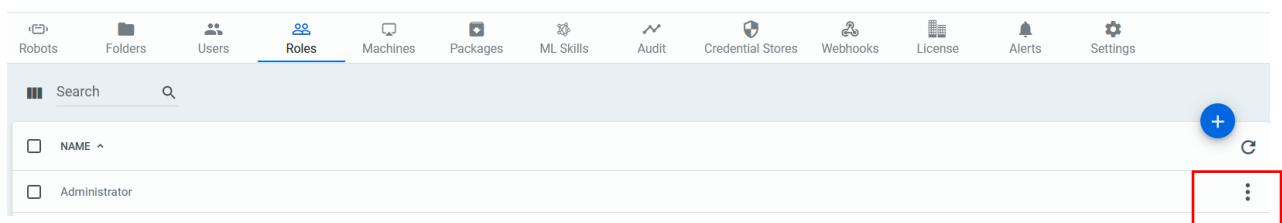
Step 7: Use **Write line** activity below the Get Credential activity and write the text in the text box: **username.ToString**

Step 8: Save and Run.

Step 9: Check a new username of **UserDetail** Asset on Orchestrator.

If found error “Set New Credential in Orchestrator: Operation returned an invalid status code 'Forbidden'” , go to **Roles** in Orchestrator

Administrator - > choose your robot -> Update



Manage Administrator Users

Search

Type: All

	TYPE	USERNAME	EMAIL
3 rows selected			
<input checked="" type="checkbox"/>	administrators		
<input checked="" type="checkbox"/>	kanokwan.at@kmitl...	kanokwan.at@kmitl.ac.th	
<input type="checkbox"/>	automation develop...		
<input type="checkbox"/>	automation users		
<input type="checkbox"/>	everyone		
<input checked="" type="checkbox"/>	test 1		
<input type="checkbox"/>	test 2		

Items 10

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CLOSE

UPDATE

Outcome:

- A message box is displayed with the text that was stored in the Message Box activity.
- The output panel shows your name as a new username of UserDetail.
- **UserDetail** Asset on Orchestrator has a new username and password.

Exercise 13.3 : Queue in Orchestrator

Objective: To create a Queue in Orchestrator and add excel data values in the queue.

- Use excel file data.
- Create a queue in Orchestrator called “invoice process”.
- Populate the queue with the data taken from the excel sheet.

Learning Outcomes

After completion of this exercise you will get familiar with the following:

- ✓ “Flowchart” activity.
- ✓ “Assign” activity.
- ✓ “Read Range” activity.
- ✓ “For Each Row” activity.
- ✓ “Get Row Item” activity.
- ✓ “Add Queue Item” activity.

Algorithm

Step 1: START.

Step 2: Create a **queue** named “Invoice Process” in UiPath Orchestrator.

- Set Unique Reference and Auto Retry to No.

[←](#) Create Queue

Create Queue	Schema Definitions	SLA Predictions
<div>Name *</div> <div>Invoice Process</div>	<div>Specific Data JSON Schema</div> <div>BROWSE</div>	<div><input type="checkbox"/> Enable SLA for this queue</div>
<div>Description</div> <div>used in lab "Queue" exercise</div>	<div>Output Data JSON Schema</div> <div>BROWSE</div>	
<div>Unique Reference</div> <div><input type="radio"/> Yes <input checked="" type="radio"/> No</div>	<div>Analytics Data JSON Schema</div> <div>BROWSE</div>	
<div>Auto Retry</div> <div><input type="radio"/> Yes <input checked="" type="radio"/> No</div>		
<div>CANCELADD</div>		

Step 3: Create a new **Flowchart** process in UiPath Studio.

Step 4: Use an **Assign** activity within flowchart activity.

- Enter variable **invoiceName** and text **"Invoice process"** respective boxes.

Step 5: Use **Read Range** activity (under Workbook) to read the data of excel ("challenge.xlsx").

Step 6: Use **For Each Row** activity to iterate through each row item.

Step 7: Use **Get Row Item** activity with For Each activity to get each row item.

- In ColumnName Properties, enter "Company Name"
- In Row Properties, enter row
- In Value Properties, enter a new variable named "getCompanyName"

Step 8: Use **Get Row Item** activity with For Each activity to get each row item.

- In ColumnName Properties, enter "Role in Company"
- In Row Properties, enter row
- In Value Properties, enter a new variable named "getRole"

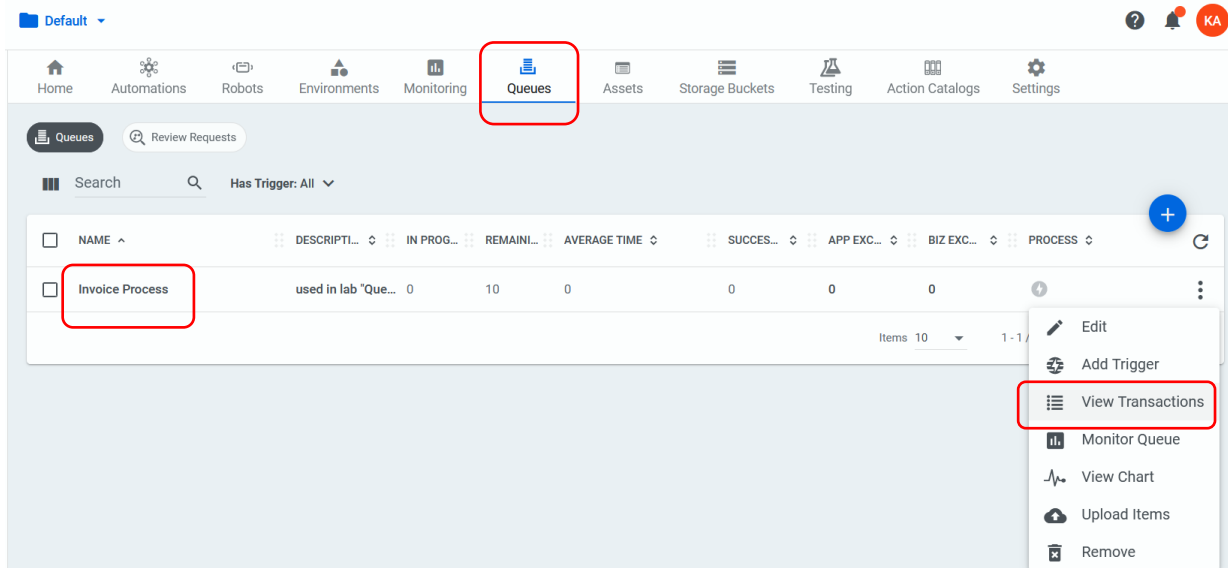
Step 9: Use **Add Queue Item** activity to insert excel data in Orchestrator.

- In **QueueItem** property, enter **invoiceName**
- Click ellipsis button of **ItemInformation** property, and fill the table as shown below:

Name	Direction	Type	Default
First_Name	In	String	Row("First_Name").ToString
Last_Name	In	String	Row.Item("Last_Name").ToString
Company_Name	In	String	getCompanyName
Role	In	String	getRole
Address	In	String	Row("Address").ToString
Email	In	String	Row.Item("Email").ToString
Phone_Number	In	String	Row("Phone_Number").ToString

Step 10: SAVE and RUN.

Step 11: Check transaction if your data in excel are in the queue or now.



Outcome: There are 10 new queues, and each queue contains collect data from excel.

Transactions: Invoice Process

Search [] Status: New Revision: All Priority: All Robot: All Reviewer: All Exception: All [Reset to defaults](#)

STATUS	REFERENCE	REVISION	PRIORITY	DEADLINE	POSTPONE	STARTED	ENDED	ROBOT
0 rows selected								
<input type="checkbox"/>	New	None	Normal					
<input type="checkbox"/>	New	None	Normal					
<input type="checkbox"/>	New	None	Normal					
<input type="checkbox"/>	New	None	Normal					
<input type="checkbox"/>	New	None	Normal					
<input type="checkbox"/>	New	None	Normal					
<input type="checkbox"/>	New	None	Normal					
<input type="checkbox"/>	New	None	Normal					
<input type="checkbox"/>	New	None	Normal					
<input type="checkbox"/>	New	None	Normal					

DETAILS

COMMENTS

HISTORY

Transaction: efe7d586-7d05-4cd7-b890-9c5123bb53ab

Specific Data: [Object](#) Output Data: [null](#) Analytics Data: [null](#)
 First_Name: [Lara](#)
 Last_Name: [Palmer](#)
 Company_Name: [Timepath Inc.](#)
 Role: [Programmer](#)
 Address: [87 Orange Street](#)
 Email: lpalmer@timepath.co.uk
 Phone_Number: [40731653845](#)

STATUS	REVISION	DEADLI...	RETRY...	POSTPO...	STARTED	ENDED	RO...	EXCEPT...
New	None		0					

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CLOSE