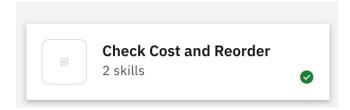
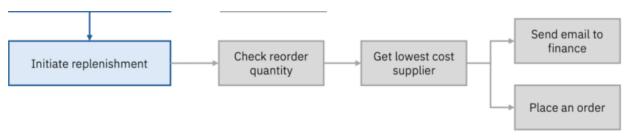
Lab 6: Initiate Replenishment Flow

In this lab, you will build an Initiate Replenishment skill flow, linking a few skills from previous labs. Check Reorder Quantity and Get Lowest Cost Supplier Skills have been pre-created for you. These skills are nested in the "Check Cost and Reorder" app.

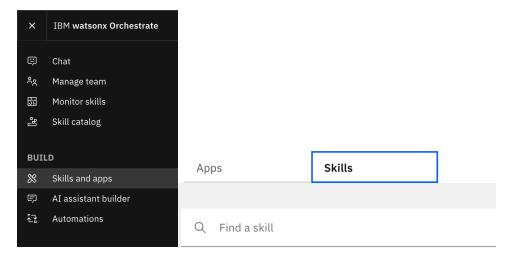


Using this, you will be able to run the procurement order scenario step by step.

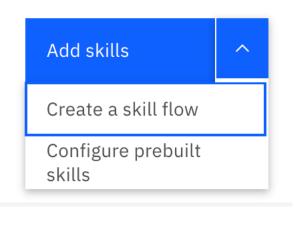


1. Add Skills to Skill Flow

1.1 Click on "Skills and Apps" from the side menu and click on Skill.

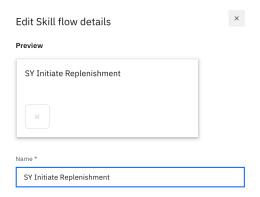


1.2 Create a Skill Flow and rename the skill flow (by clicking on the pen icon) to "[Your Name] Initiate Replenishment", click on save.

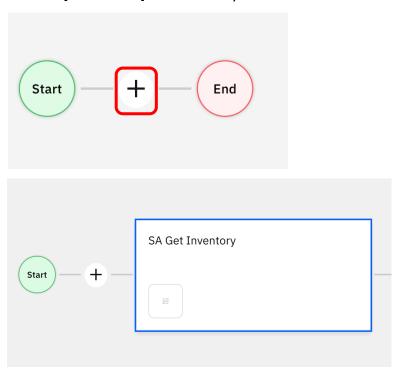


Untitled

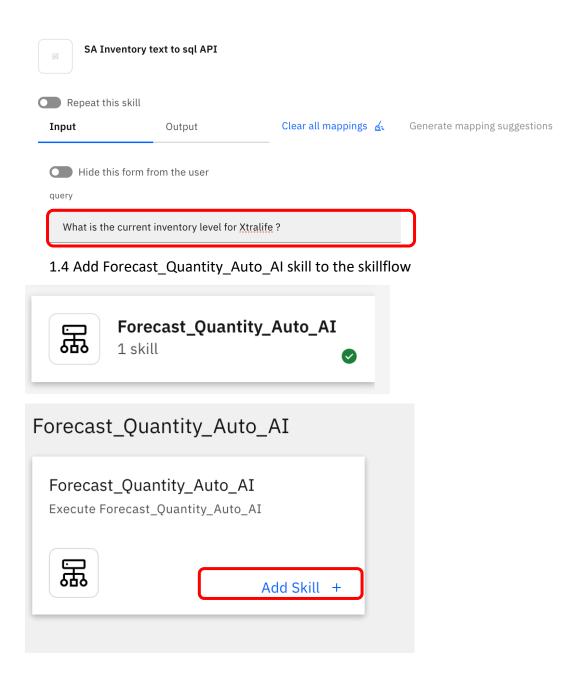




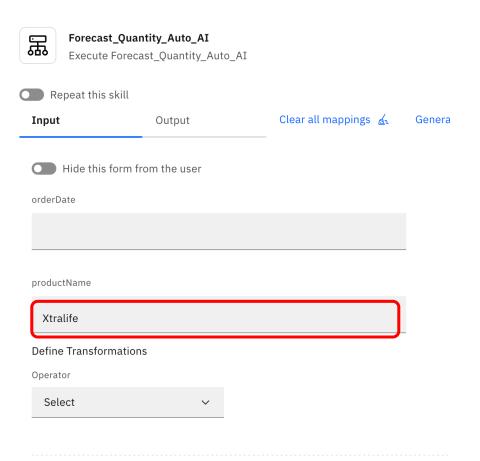
1.3 Add the [Your Name] Get Inventory Skills to skill flow.



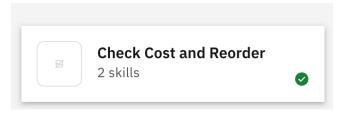
1.3.1 Click on the [Your Name] Get Inventory Skills, and change the default query to "What is the current inventory level for Xtralife?"



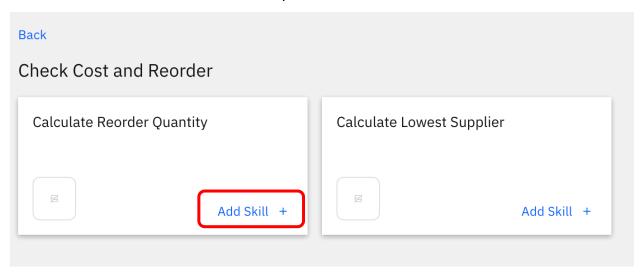
1.4.1 Click on Forecast_Quantity_Auto_Al skill and type in the default productName to "Xtralife"



1.5 Look for Check Cost and Reorder App.



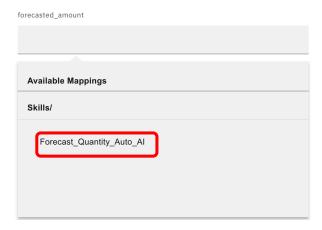
1.5.1 Add Calculate Reorder Quantity Skill

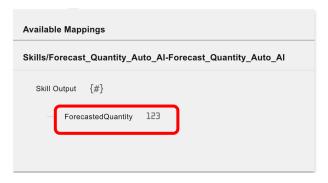


1.5.2 Click on the Calculate Reorder Quantity Skill and click on forecasted_amount box.

Select 'Forecast_Quantity_Auto_Al' from the dropdown and select

'ForecastedQuantity' from the next dropdown.

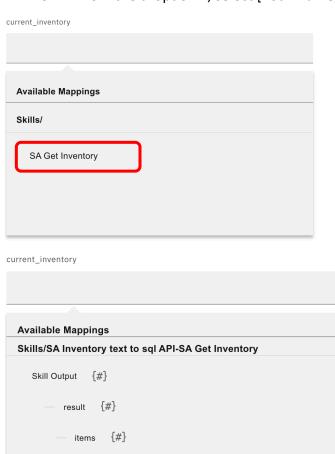




1.5.3 Click on the "current_inventory" box.

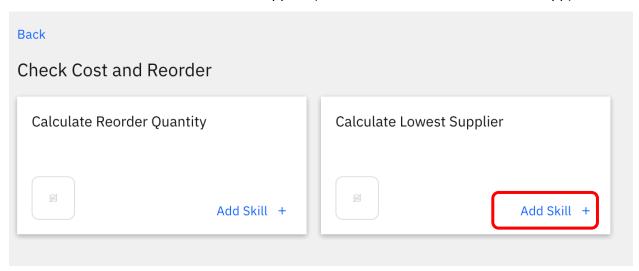


1.5.4 From the dropdown, select [Your Name] Get Inventory -> Quantity



Quantity

1.5.5 Add Calculate Lowest Cost Supplier (also from Check Cost and Reorder App)



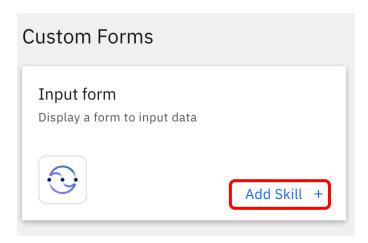
1.5.6 Click on the Calculate Lowest Supplier and edit the product_name field.



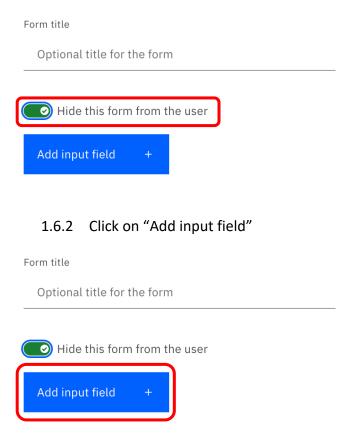
1.5.7 Type in Xtralife into the product_name field.



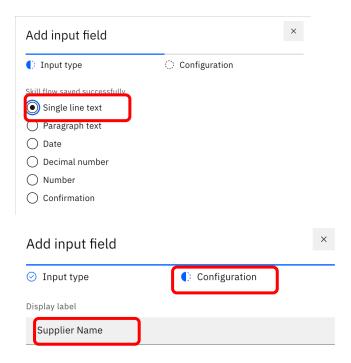
1.6 As we want to only choose 1 supplier to reorder from, we will need to capture the lowest cost supplier details in a form. Add Input Form (from Custom Forms App)



1.6.1 Select "Hide this form from user". (Optional to give a name)



1.6.3 Select "Single Line Text" for the input type, and type in "Supplier Name" in Configuration tab. Click on Apply.

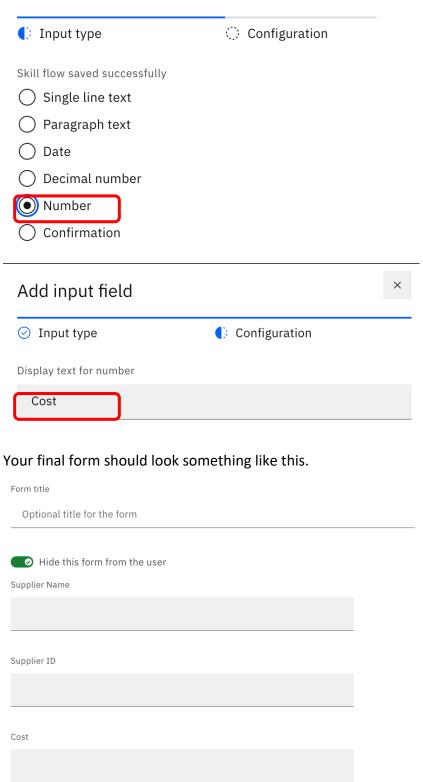


1.6.4 Repeat steps 1.1.12 and 1.1.13 for Supplier ID.

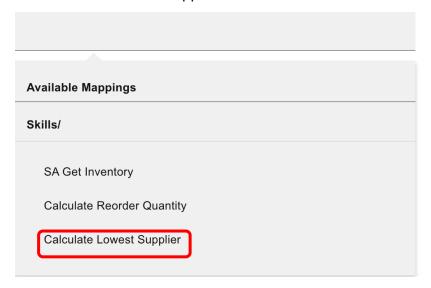


1.6.5 Lastly, create a field with "Number" as input type and "Cost" as Display label.

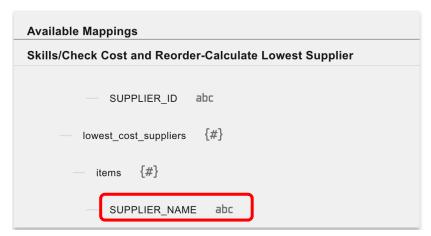
Add input field



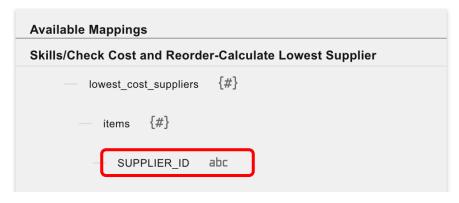
1.6.6 Click on the Supplier Name field and select "Calculate Lowest Supplier".



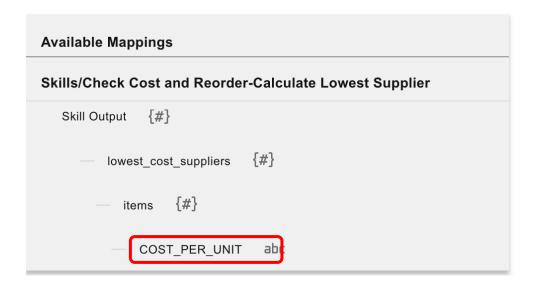
1.6.7 Select SUPPLIER_NAME.



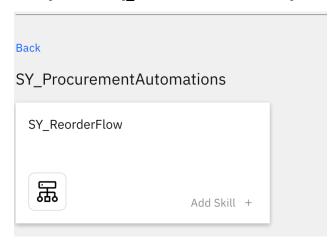
1.6.8 Repeat step 1.1.16 for Supplier ID field. Select Supplier ID from the drop down.



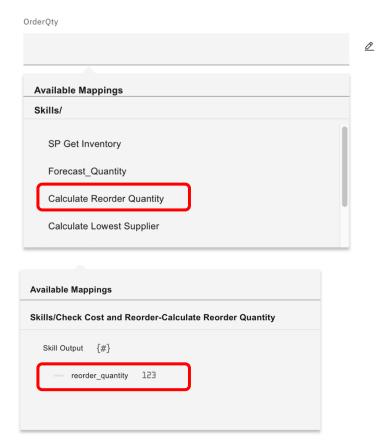
1.6.9 Repeat step 1.1.16 for Cost field. Select COST_PER_UNIT from the drop down.



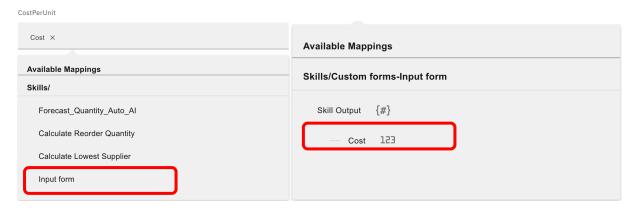
1.7 Add '[YourName]_ReorderFlow' skill from [YourName]_ProcurementAutomations app.



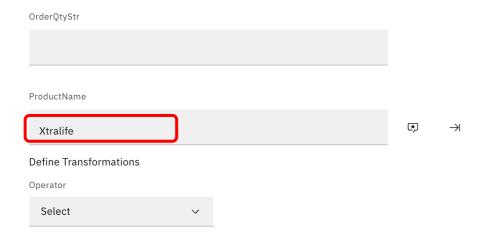
1.7.1 Click on the OrderQty field and select Calculate Reorder Quantity from the dropdown. Select reorder_quantity from next dropdown.



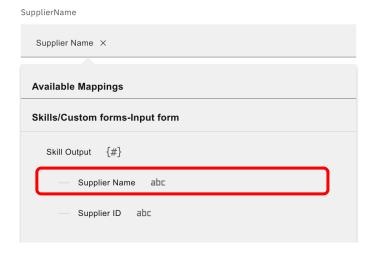
1.7.2 Click on CostPerUnit box. Select "Input Form" field from the dropdown. Select COST from the next dropdown.



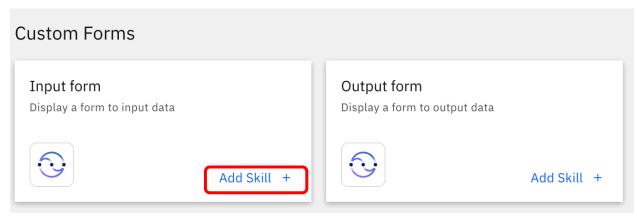
1.7.3 Type in 'Xtralife' into the ProductName box.



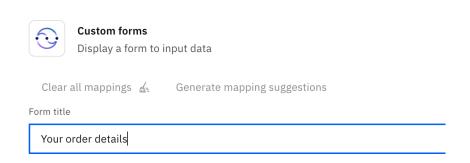
1.7.4 Click on SupplierName box and select "Input Form" from the dropdown and then select SUPPLIER NAME from the next drop down



1.8 We will consolidate all the replenishment details in another input form. Add Input Form (from Custom Forms App)



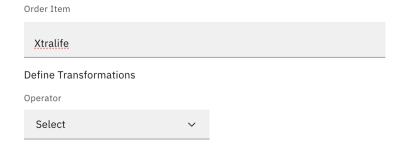
1.8.1 Name the form as "Your order details".



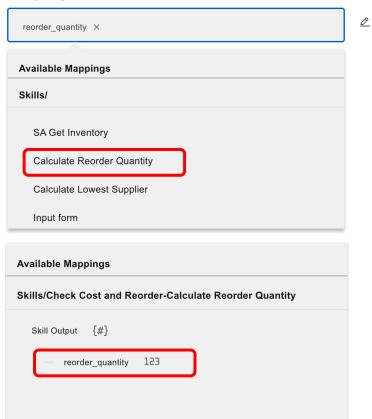
1.8.2 Click on "Add input field" and create the following fields:

Input Type	Display Label
Single Line Text	Order Item
Number	Order Quantity
Single Line Text	Supplier Name
Single Line Text	Supplier ID
Number	Cost Per Unit
Paragraph Text	Email Content

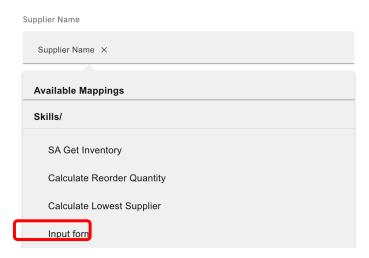
1.8.3 Click on the "Order Item" box and edit the default value to Xtralife.

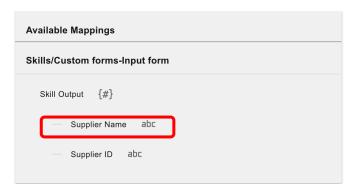


1.8.4 Click on "Order Quantity" box and select "Calculate Reorder Quantity" from the drop down. Select reorder_quantity on the next drop down.

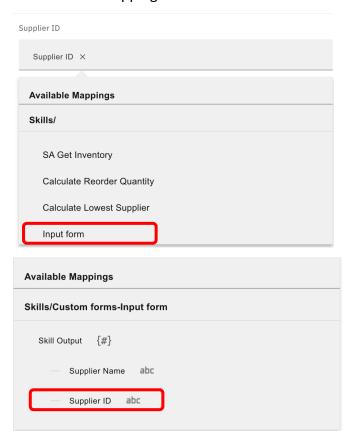


1.8.5 Click on "Supplier Name" box and select "Input Form" from the drop down. Select "Supplier Name" on the next drop down.

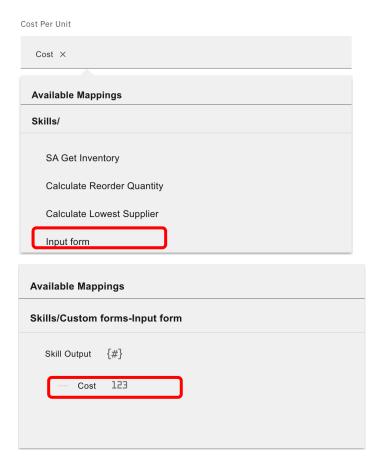




1.8.6 Repeat step 1.1.26 for the "Supplier ID" box, selecting "Supplier ID" from the Available Mappings Menu

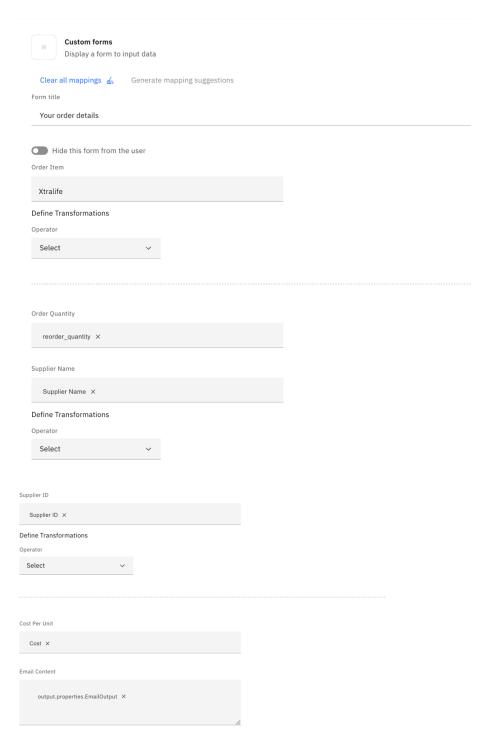


1.8.7 Click on "Cost Per Unit" box and select "Input Form" from the drop down. Select "Cost" on the next drop down.

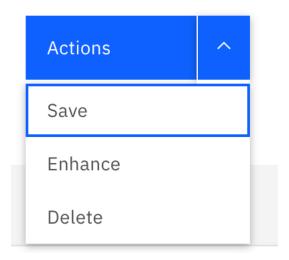


1.8.8 Click on Email Content box and select "[YourName]_ReorderFlow" from the dropdown. Select EmailOutput from the next dropdown.





1.9 Lastly, click on the arrow on "Actions" and "Save".



2. Publish the Skill

2.1 Select Publish

3. Add Initiate Replenishment Skill Flow

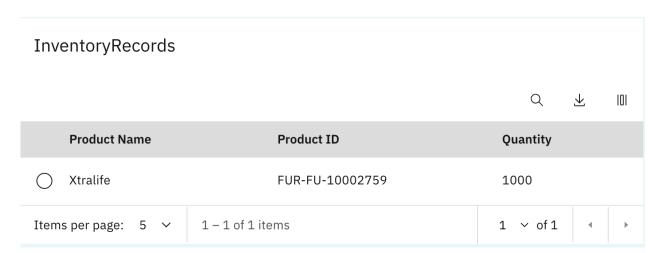
- **3.1** Go to Chat and Select "Add skills from catalog".
- **3.2** Look for "[Your Name] Initiate Replenishment" Skill in Skill Flows app.

4. Use Initiate Replenishment Skill Flow

- **4.1** Select "[Your Name] Initiate Replenishment" skill flow from the menu.
- **4.2** The first skill in the skill flow will be automatically triggered. Click Apply.

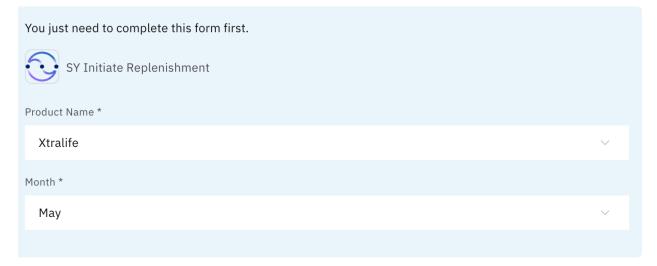


4.3 Once the result is out, select the result and click Apply.

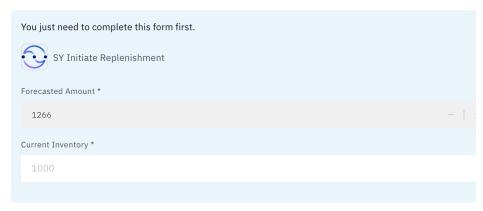


This will automatically trigger the Reorder Quantity skill.

4.4 Once the result is out, Select a Month from the drop down and click Apply.

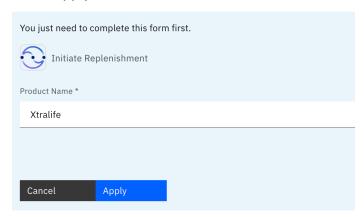


4.5 The output shows the forecasted amount and current inventory as below. click Apply to proceed. This will return the reorder_quantity.

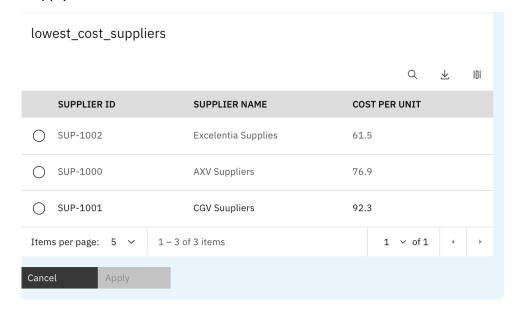




4.6 You will immediately see the "Get Lowest Supplier skill", with the Product Name filled. Click Apply.



4.7 Once the result is returned, you are free to choose any supplier you want and Click Apply.



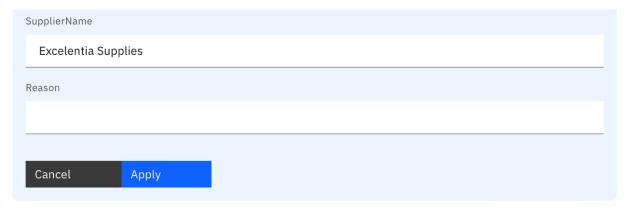
4.8 The output will be shown as such.



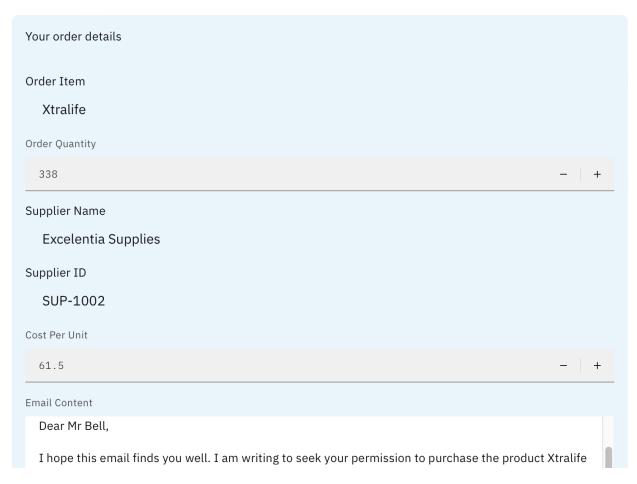
4.9 Refer to the displayed OrderQty and CostPerUnit and Type in the OrderQty in OrderQtyStr and CostPerunit in CostPerUnitStr input boxes.



4.10 Type any reason in the 'Reason' input box such as "festivities around corner" and click on Apply.



4.11 The final output is shown as such:



Email Content

irom Excelentia Supplies.

As you may be aware, the festive season is just around the corner and we anticipate a surge in demand for our products. In order to meet this demand and ensure that we have sufficient stock, I would like to request permission to purchase 338 units of Xtralife at a cost of \$61.50 per unit.

I believe that this purchase will be beneficial for our company as it will allow us to meet the increased demand during the festive season and maintain our reputation as a reliable supplier.

I would be grateful if you could review this request and provide your approval at your earliest convenience.

Thank you for your time and consideration.

Best regards,

[Your Name]

Cancel

Apply

/

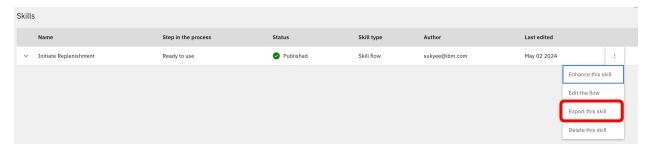
Optional Practices:

The forms currently are editable. To make the output form (or any forms) in a read-only format, please follow the following steps.

1. Go to "Skills and App" page. Look for the "[Your Name] Initiate Replenishment" Skill.

Skills and apps Add new skills, train them to be more effective, and publish them to the catalogous papers. Apps Skills Q Initiate Re Skills Name Step in the process V Initiate Replenishment Ready to use

2. Click on the 3 dots and export the skills.



- 3. This will download a .json file on your local computer.
- 4. You will need a programme or code editor to edit this .json file.
- 5. Within the .json file, look for the type: input_form with form_title: "Your order details".

6. In each schema, you will need to add on "x-ibm-disable": "true"

```
"name": "Order Quantity",
"label": "Order Quantity",
"required": false,
"in": "path",
"description": "Order Quantity",
"x-ibm-label": "Order Quantity",
"schema": {
   "type": "number",
   "format": "number",
   "x-ibm-label": "Order Quantity",
   "x-ibm-disable": "true"
"name": "Supplier Name",
"label": "Supplier Name",
"required": false,
"in": "path",
"description": "Supplier Name",
"x-ibm-label": "Supplier Name",
"schema": {
   "type": "string",
   "format": "",
   "x-ibm-label": "Supplier Name",
  "x-ibm-disable": "true"
```

- 7. After adding in into the schemas, save the .json file.
- 8. You will need to add the skills through the .json file and publish the skills again.

```
"name": "Supplier ID",
"label": "Supplier ID",
"required": false,
"in": "path",
"description": "Supplier ID",
"x-ibm-label": "Supplier ID",
"schema": {
    "type": "string",
    "format": "",
    "x-ibm-label": "Supplier ID",
   "x-ibm-disable": "true"
"name": "Cost Per Unit",
"label": "Cost Per Unit",
"required": false,
"in": "path",
"description": "Cost Per Unit",
"x-ibm-label": "Cost Per Unit",
"schema": {
    "type": "number",
    "format": "number",
   "x-ibm-label": "Cost Per Unit",
  "x-ibm-disable": "true"
```