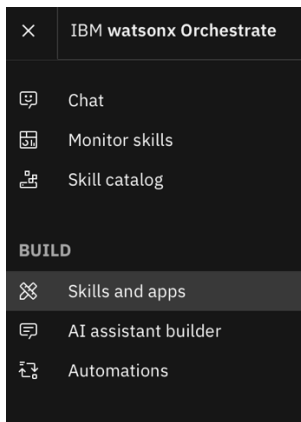


## Lab 7: Complete Procurement Flow

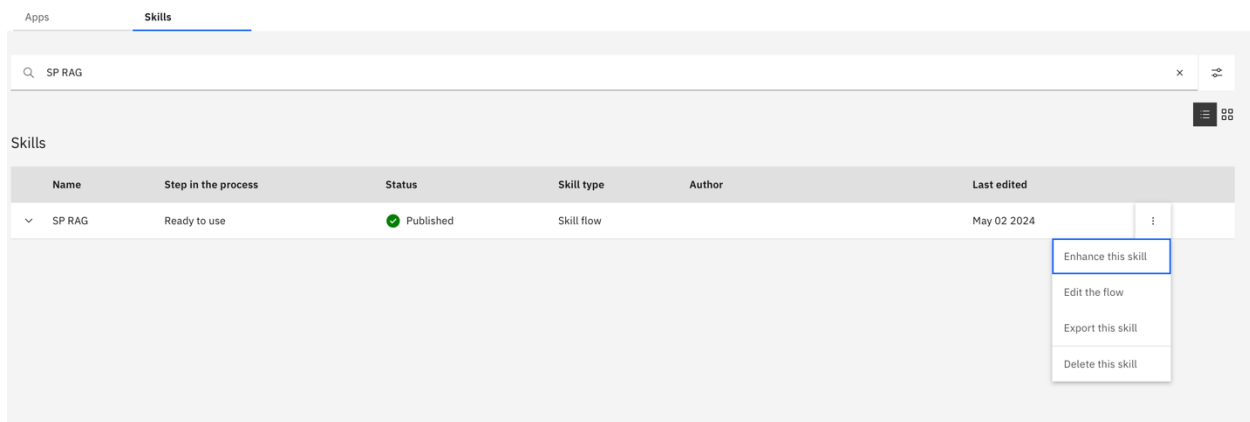
In this lab, you will add Next best skills to the previously created [Your Name] RAG (lab 5) skill flow and [Your Name] Initiate Replenishment skill flow.

### 1. Add Next best skills to the [Your Name] RAG skill flow

1.1 Click on Skills and apps from the main page.



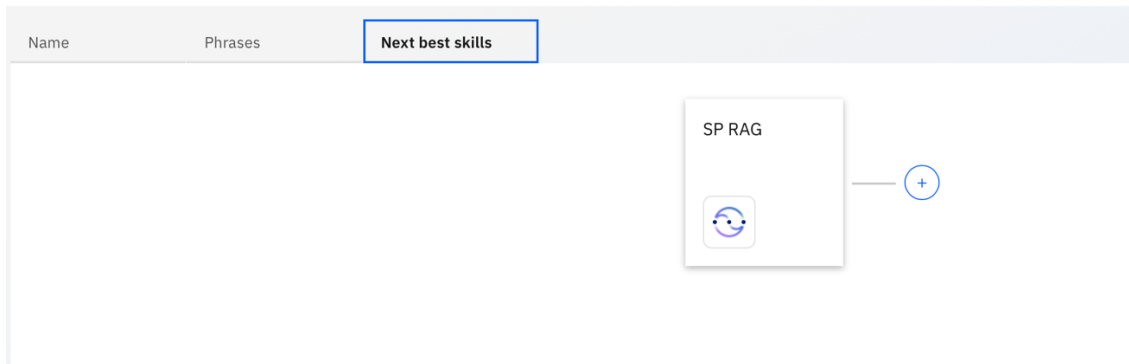
1.2 Go to Skills and search for the [Your Name] RAG skill, click on Enhance this skill as shown below.



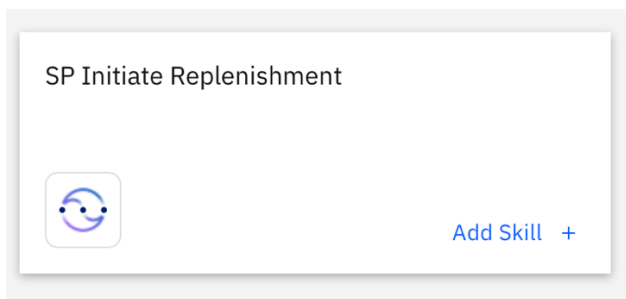
1.3 Click on Next best skills.

## Enhance the “SP RAG” skill

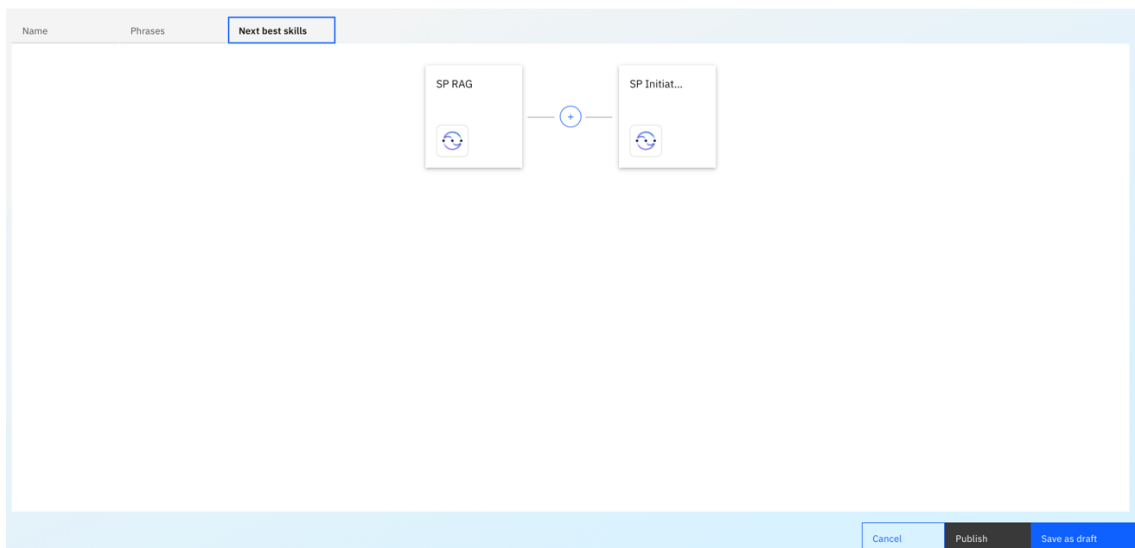
Add details that will make people want to use this skill.



- 1.4 Click on + to add the next best skill, search for [Your Name] Initiate replenishment skill and click on add skill.



- 1.5 Click on Publish button to publish the skill.

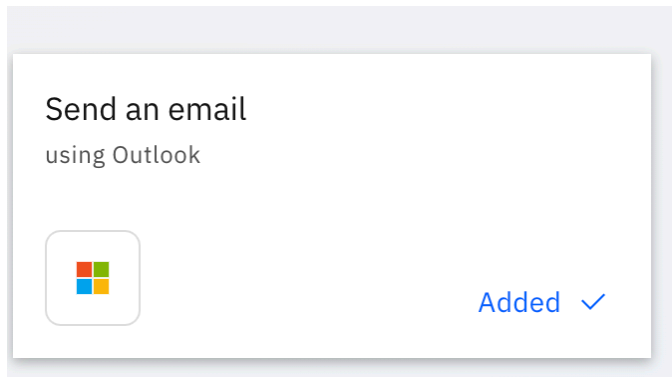


## 2. Add Next best skills to the [Your Name] Initiate Replenishment skill flow

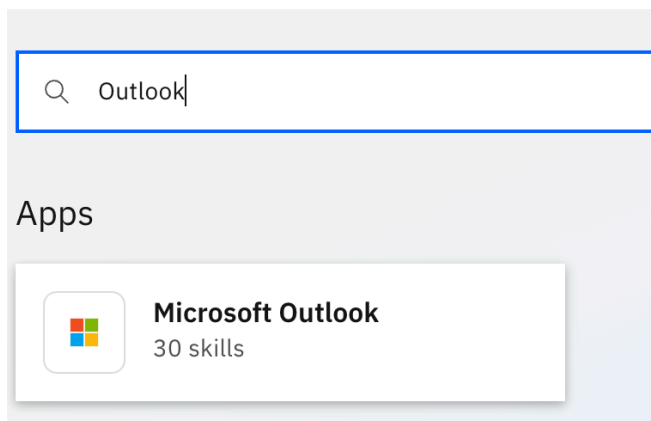
2.1 Add “Send Email” as personal skills.

**\*\*If you’ve added the Microsoft Outlook, Send Email skill in your personal skill, you can skip this step.**

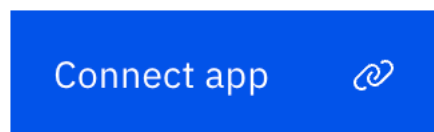
2.1.1 Click on Skill catalog and Add skill for “Send an email using Outlook”



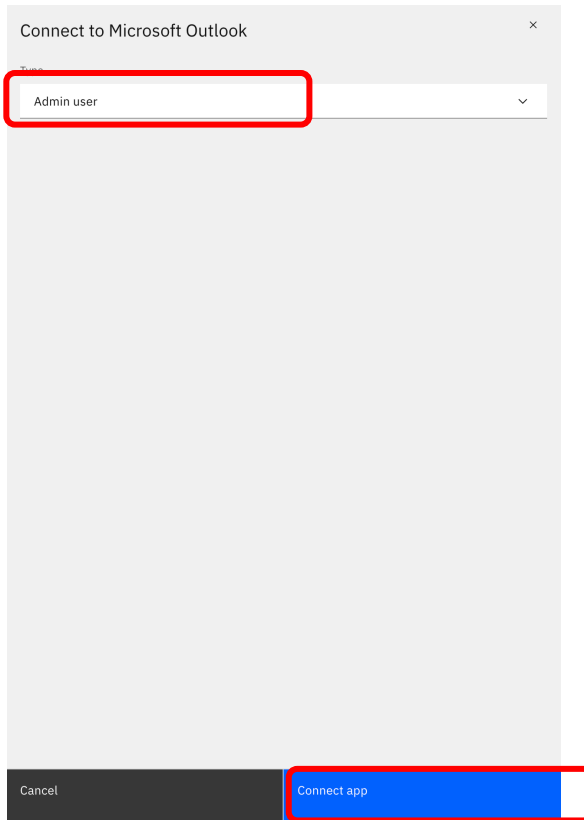
2.1.2 On the search bar, search for outlook and click on the “Microsoft Outlook” tile.



2.1.3 Click on the “Connect App” button on the top left.



2.1.4 Change “Non-admin user” to “Admin user” and click on Connect App



2.1.5 Click on the following link

## Need admin approval

International Business Machines Corporation 

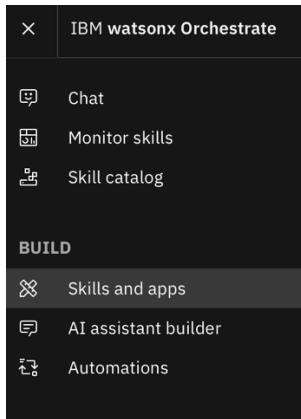
needs permission to access resources in your organisation that only an admin can grant. Please ask an admin to grant permission to this app before you can use it.

[Have an admin account? Sign in with that account](#)

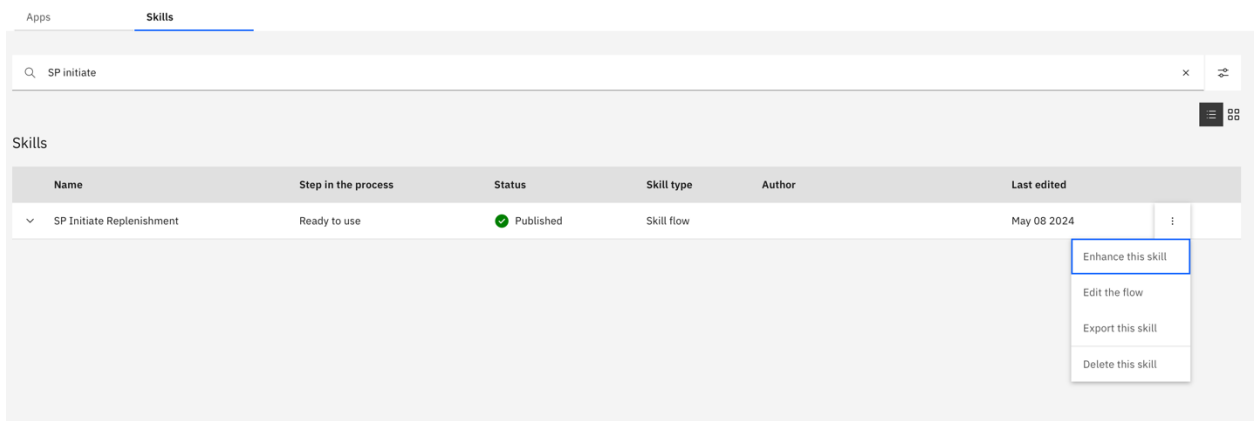
[Return to the application without granting consent](#)

2.1.6 Refer to the connection details sheet and look for Microsoft Outlook log in details.

2.2 Click on Skills and apps from the main page.



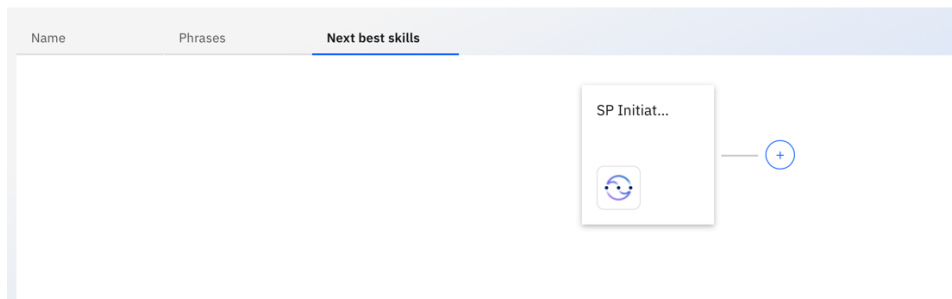
2.3 Go to Skills and search for the [Your Name] Initiate Replenishment skill, click on Enhance this skill as shown below.



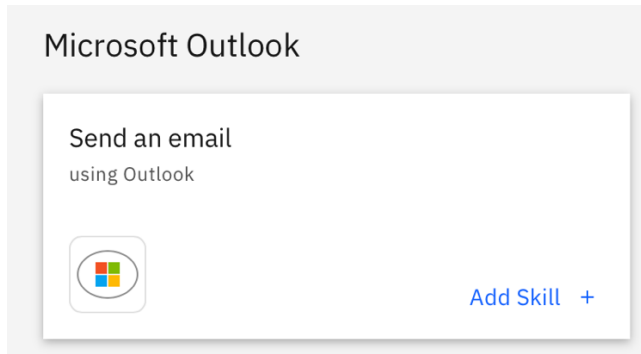
2.4 Go to Next best skills.

### Enhance the “SP Initiate Replenishment” skill

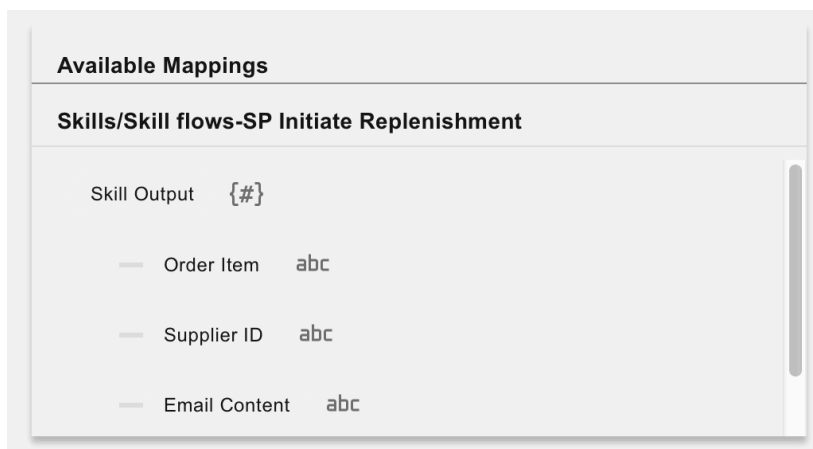
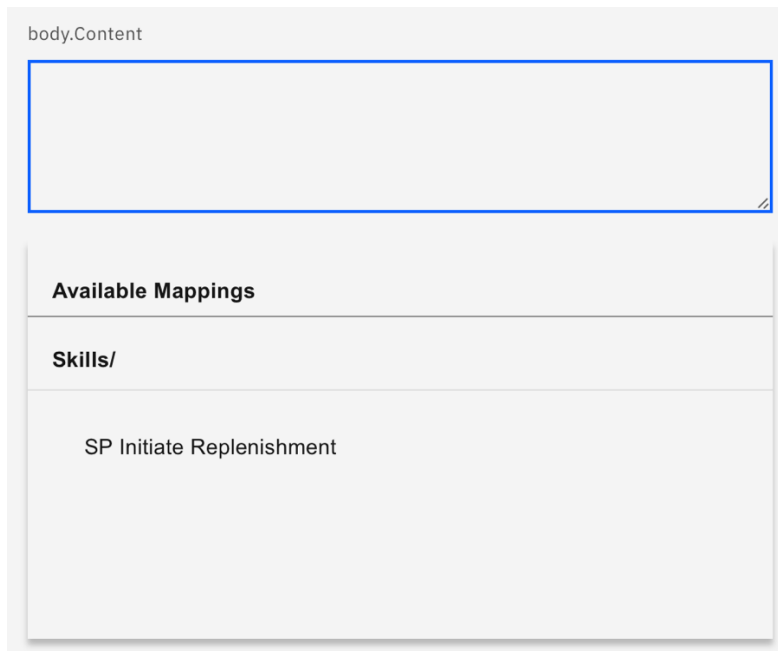
Add details that will make people want to use this skill.



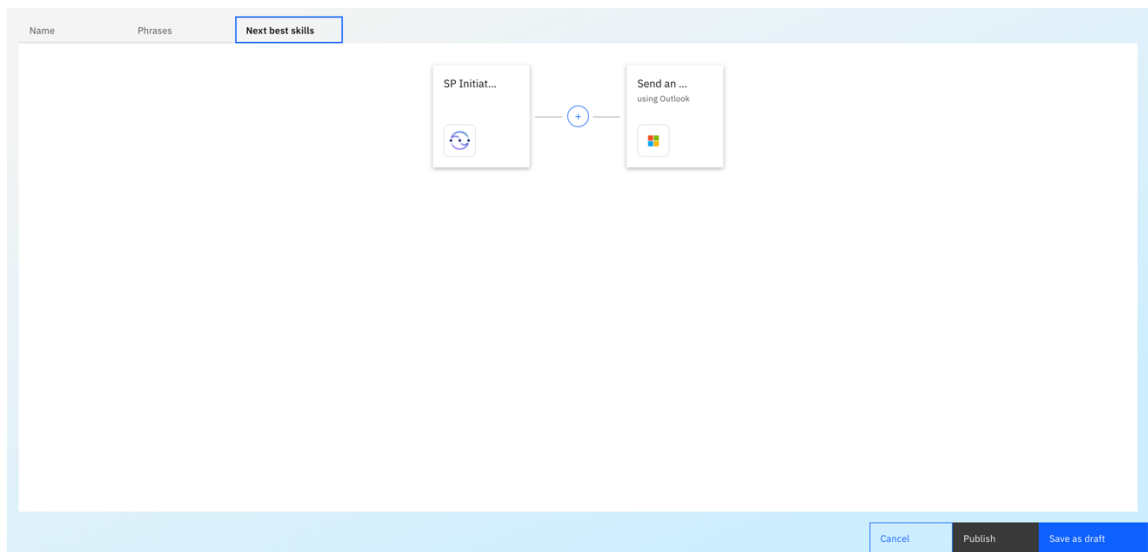
2.5 Search for send an email skill and add the skill.



- 2.5.1 Click on the send an email skill. Click on body.Content box and select [Your name] Initiate Replenishment from the dropdown. Then select Email Content from the next dropdown.



### 2.5.2 Select Publish.




## 3. Use the Skill flow

3.1 Select RAG skill flow for using the skill flow. Add a user question “What are Procurement Requisition (PR) rules ?” and select Apply.

The screenshot shows the Watson Assistant interface. At the top, there is a chat bubble with the text 'Hi. I'm Watson. Let's get to work.' Below this, there is a tab labeled 'RAG'. Under the 'RAG' tab, there is a section titled 'Provide the following inputs' with a sub-label 'User Question'. Below this is a text input field. At the bottom of this section are two buttons: 'Cancel' and 'Apply'. Below the input section is a search bar with the placeholder text 'Tell me what you want to do'. At the bottom of the interface, there is a row of five cards. The first card is blue and labeled 'Add skills from the catalog' with a right arrow. The second card is white and labeled 'RAG' with a circular arrow icon. The third card is white and labeled 'Content Generation (Async)' with a brain icon. The fourth card is white and labeled 'Watson Discovery Search' with a magnifying glass icon. The fifth card is white and labeled 'My skill usage' with a sub-label 'Last week'. Below this label, it says 'Total skills used' and shows the number '42' with a green upward arrow icon.

3.2 Watson Discovery skill is triggered and some of the parameters are pre filled in the form. Click on Apply.

You just need to complete this form first.

 RAG

version \*

2020-08-30

project\_id \*

f71cf419-982c-4603-ac85-e7ebc6cf0ce4


natural\_language\_query

What are the Procurement Requisition rules ?

A natural language query that returns relevant documents by using training data and natural language understanding.


[Show all fields](#)

[Cancel](#) [Apply](#)


 Tell me what you want to do

[Add skills from the catalog](#)


**RAG**



**Content Generation (Async)**




**Watson Discovery Search**



**My skill usage** Last week


Total skills used

42



3.3 Watson Discovery returns relevant passages for the User Question. Select the option and click on Apply.

Query executed successfully.

 RAG

Document Retrieval Strategy

untrained

matching\_results


1

results

document id	title	result metadata	document passages	table results references
114d65dbf441b2b09c6ca7af4bfb25		{ "collection_id": "90e45bcd-967b-e911-0000-0180e61b368c", "document_retrieval_sour..." <a href="#">Show more</a>	{ "passage_text": "PROCUREMENT REQUISITION (PR) Each specific procurement procedure process shall be..." <a href="#">Show more</a>	[]


Items per page: 5 1 - 1 of 1 items

[Cancel](#) [Apply](#)


 Tell me what you want to do

[Add skills from the catalog](#)


**RAG**



**Content Generation (Async)**




**Watson Discovery Search**



**My skill usage** Last week

Total skills used

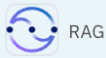
42



3.4 Content Generation flow is triggered and based on the relevant chunk, the prompt gets populated. Select Apply.



You just need to complete this form first.



input \*

Based on the below content, answer the user question. The answer should be returned as bullet points and use line break wherever required.

Content: <em>PROCUREMENT</em> <em>REQUISITION</em> (<em>PR</em>) Each specific <em>procurement</em> procedure process shall be initiated by <em>procurement</em> <em>requisitions</em> to the <em>procurement</em> officer from the requesting department and should show detailed specifications and requirements for the item(s) being requested. They should also indicate that the item is budgeted for. The PRs allows the departments flexibility within the overall annual plans regarding specifications, exact quantities, delivery dates, etc. They are also used to cater for un-planned or emergency <em>procurement</em>. The <em>PR</em> form will show the following: i) Item required ii) Quantity iii) Delivery dates Some donors do prescribe some conditions or restrictions required to be observed during <em>procurement</em> pertaining to the project they fund. It is the responsibility of the <em>procurement</em> committee to ensure that such donor requirements and restrictions are observed in the <em>procurement</em> of goods and services but within the framework of Watson's Wonder Emporium <em>procurement</em> guidelines. All <em>requisitions</em> must be signed by the departmental heads or designate, who should ensure that the item(s) are in APP or should seek authority to procure as per policy. Any persons designated to authorize <em>requisitions</em> in acting capacity must have the authority given in writing clearly.

callbackurl

### 3.5 An answer will be generated based on the provided paramters and the user question.

Here are the results of the Content Generation (Async) skill.



Generated content

Answer: Procurement Requisition (PR) rules in Watson's Wonder Emporium include the following:

1. PRs should be initiated by the requesting department to the procurement officer, indicating detailed specifications and requirements for the item(s) being requested.
2. PRs should show that the item is budgeted for and allow departments flexibility within the overall annual plans regarding specifications, exact quantities, delivery dates, etc.
3. PRs are used to cater for un-planned or emergency procurement.
4. The PR form will show the item required, quantity, and delivery dates.
5. Donors may prescribe conditions or restrictions required to be observed during procurement, and it is the responsibility of the procurement committee to ensure that such donor requirements and restrictions are observed.
6. All requisitions must be signed by the departmental heads or designate, who should ensure that the item(s) are in APP or should seek authority to procure as per policy.
7. Any persons designated to authorize requisitions in acting capacity must have the authority given in writing clearly stating the period authorized.

### 3.6 You will see the following next best action, click on [Your Name] Initial Replenishment.

Select the next best action

SP Initiate Replenishment

### 3.7 The first skill in the skill flow will be automatically triggered. Click Apply.

### Initiate Replenishment

You just need to complete this form first.



Initiate Replenishment

Query \*

What is the current inventory level for Xtralife ?

**3.8** Once the result is out, select the result and click Apply.

## InventoryRecords



Product Name	Product ID	Quantity
<input type="radio"/> Xtralife	FUR-FU-10002759	1000
Items per page: 5	1 – 1 of 1 items	1 of 1

This will automatically trigger the Reorder Quantity skill.

**3.9** Once the result is out, Select an Order date and click Apply.

You just need to complete this form first.



SP Initiate Replenishment

Product Name

Xtralife

orderDate


The format for this field is "date" as defined in rfc3339 (<https://tools.ietf.org/html/rfc3339#section-5.6>)

Cancel

Apply

- 3.10 The output shows the forecasted amount and current inventory as below. click Apply to proceed. This will return the reorder\_quantity.

You just need to complete this form first.

 SP Initiate Replenishment

Forecasted Amount \*


1335 - +

Current Inventory \*

1000

Cancel Apply

Successful Response


 SP Initiate Replenishment

reorder\_quantity

335 - +

- 3.10.1 You will immediately see the “Get Lowest Supplier skill”, with the Product Name filled.  
Click Apply.

You just need to complete this form first.

 Initiate Replenishment

Product Name \*

Xtralife

Cancel Apply

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

lowest\_cost\_suppliers

SUPPLIER ID	SUPPLIER NAME	COST PER UNIT
<input type="radio"/> SUP-1002	Excelentia Supplies	61.5
<input type="radio"/> SUP-1000	AXV Suppliers	76.9
<input type="radio"/> SUP-1001	CGV Suppliers	92.3

Items per page: 5 ▾

1 – 3 of 3 items

1 ▾ of 1

◀ ▶

Cancel

Apply

3.12 The output will be shown as such, click on Apply

Your order details

Order Item

Xtralife

Order Quantity

281

– +

Supplier Name

Excelentia Supplies

Supplier ID

SUP-1002

Cost Per Unit

61.5

– +

Cancel

Apply

3.13 The output will be shown as below. Refer to the displayed OrderQty and CostPerUnit and Type in the OrderQty in OrderQtyStr and CostPerunit in CostPerUnitStr input boxes.

You just need to complete this form first.



Initiate Replenishment

OrderQty

338

- | +

CostPerUnit

61.5

- | +

OrderQtyStr

CostPerUnitStr

ProductName

Xtralife

SupplierName

3.13.1 Type any reason in the 'Reason' input box such as “festivities around corner” and click on Apply.

SupplierName

Excelentia Supplies

Reason

Cancel

Apply

3.14 The final output is shown as such:

## Your order details

### Order Item

Xtralife

### Order Quantity

338

− | +

### Supplier Name

Excelentia Supplies

### Supplier ID

SUP-1002

### Cost Per Unit

61.5

− | +

### Email Content

Dear Mr Bell,

I hope this email finds you well. I am writing to seek your permission to purchase the product Xtralife

Email Content

from Excetentia 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

3.15 Insert your name in the Email Content and click on Apply. You will see the following next best action, click on send an email.

Select the next best action

Send an email

3.16 The following output is shown:

You just need to complete this form first.



Send an email

To

A semi-colon (;) separated list of the recipients.

Cc

A semi-colon (;) separated list of the Cc recipients.

Bcc

A semi-colon (;) separated list of the Bcc recipients.

Subject

The subject of the email.



Content

Dear Mr Bell,

I hope this email finds you well. I am writing to seek your permission to purchase the product Xtralife from 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 enable us to meet the increased demand during the festive season and maintain our reputation for providing high-quality products to our customers.

Thank you for considering my request. I look forward to hearing from you soon.

Best regards,

The content of the email.

Content type

Text

The content type of the message body. Possible values include: Text or HTML.

[Show all fields](#)

Cancel

Apply

3.17 Fill in all the fields and click on Apply to send the mail.