# watsonx Orchestrate Lab 4b:

# Leveraging skill flow with automation

Objective

Now that we have all the skills and workflows in place, we can create a complete flow. You can create this flow within project or skill flow. Since Skill Flow is more readily available, we will build this final flow in the Skill Flows section.

Background

In lab 2, we imported an agent from Agent Lab. As of today’s development, the agents imported into the watsonx Orchestrate environment are not able to interact with other tools (taking input or giving output). Therefore, this agent will need to be wrapped up as a skill. Your instance will already have the Supplier Research skill.

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[If time permits] Running the Supplier Research

1. Navigate to the chat interface from the right hand hamburger menu.
2. Type in “Research for product Xtralife Supplier”

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1. Watsonx Orchestrate will try to understand the input and asked for confirmation.

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1. After a few minutes, the agent will return a response.

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1. The information above is great, however we will actually need the most suitable supplier’s name to act as an input to other skills.
2. We have already included this automation within the imported Project in Lab 3.

## [Read only] Create a flow using custom agent

1. Navigate to skill studio and Project tab.
2. Click on your Project and click on Get Supplier Flow.

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1. You will see the workflow which connects the Supplier Research Skill and a Generative AI component to extract the most suitable Supplier.

Create Reorder Skill Flow

1. Let’s put all the components together in a skill flow.
2. Navigate to **Skill Catalog** and add two of the Reorder Automation Skills

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1. Navigate to Skill studio and Create a Skill flow.
2. Name your skill flow [YourName]\_Reorder Flow

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1. Add in the first 4 components of the skills flow

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From Salesforce

From Custom Form

From Reorder Automation

1. Click on the first Input form and add in the following details:

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1. Repeat Step 6 to create a field for “Reorder Quantity” with type “Number”.

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1. Click on Get Supplier Flow and map the query field with the input form’s query.

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1. Click on the 2nd input form. Create 2 input fields
   1. Supplier Name with “Paragraph text” type
2. Map the input form variables to the relevant output from Get Supplier Flow.

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1. Click on Get all Accounts and create a filter “Account name is Supplier Name”

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1. Add in the next 3 components.

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From Reorder automation

From Salesforce custom

From Salesforce

1. Click on Get all Pricebook and set a filter the same way as step 7.

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1. Click on Reorder Decision Flow. We will need to map the input from various skills within the flow. For now let’s hard code the reorder qty.

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Fill in any number larger than 2000

Get from “Get Supplier Flow” skills

Get from “Fetch all pricebook item…” skills

Get from “Fetch all pricebook item…” skills

Get from “Get all account” skills

1. After mapping all the values, publish your skill flow.

## Connecting 2 Skill Flows

1. Next, we will connect the reorder quantity skill flow and the reorder skill flow together through the “Next best skill” option.
2. Go to Skill Studio and Skills and Apps.
3. Locate [YourName]\_Calculate Reorder Qty Flow from the list.
4. From the triple dot menu, select Enhance Skill and navigate to the “Next best skills” tab.

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1. Click on the “+” sign and search for skill flows from the menu.

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1. Search for the [YourName]\_Reorder Flow and click “Add Skill”. (Withink skill flows)

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1. Click Publish once you are done.
2. Add the [YourName]\_Calculate Reorder Qty Flow skill into the AI agent configuration. For Description you can use the phrase “[Your Name] To complete reorder flow with reorder quantity calculation and placing order”.
3. Add the skills in AI Agent Configuration.

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1. If you’ve added this beforehand, you will need to change the description to “[Your Name] To complete reorder flow with reorder quantity calculation and placing order”

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1. Go to the chat interface and start a new chat. The chat can route user to the correct skill with just natural language. However since we are in a workshop environment, we will use “[Your Name] To complete reorder flow with reorder quantity calculation and placing order”

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1. The next best skill will present itself in the following format

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1. Once you select the Reorder Flow, you will need to enter a query “Research best supplier for product Xtralife” to kickstart the next flow.

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1. Ensure that there is no extra characters in this step. You can click into the space to remove it if any.

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1. For this step, you will need to choose the entry with the supplier name that is determined by the previous steps. (A feature of Salesforce)

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1. This will be the end-to-end flow for the procurement scenario. You can refer to the [video](https://ibm.box.com/s/revua3alibhzbv6vaershy2y2mwp8jrm) to see the demonstration of this flow.