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PROJECT NAME	Project-Ai based discourse for banking industry

Overview: Editing actions

Like a human personal assistant, the assistant you build will help your customers perform tasks and answer questions. To accomplish this, you define actions for the assistant.

An *action* represents a discrete outcome you want your assistant to be able to accomplish in response to a user's request. An action comprises the interaction between a customer and the assistant about a particular question or request. This interaction begins with the user input that starts the action (for example, withdraw money). It might then include additional exchanges as the assistant gathers

more information, and it ends when the assistant carries out the request or answers the customer's question.

Creating and editing an action

To see how actions work and how you build one, let's go through an example.

When you create a new action from scratch, Watson Assistant prompts you for an example of the customer input that starts the action. This text is also used as the default name for the action, but you can edit the action name later.



Type I want to withdraw money and then click Save to create the action.

Initially, you only need to specify one example of typical user input that starts the action. You can add more examples of user input later. For more information, see <u>Understand your user's questions or requests</u>

Using the action editor

After you create the action, the action editor opens.

I want to withdraw money

Customer starts with:

I want to withdraw money

Conversation steps

This step has no content

1

↓ Continue to next step

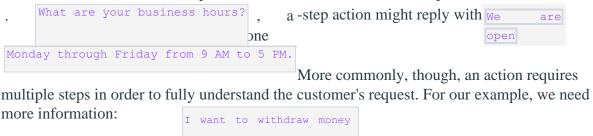
The editor window shows the parts of an action:

- The Customer starts with: tile shows the customer input that starts the action. You can click this tile to edit the example text or add more examples, but we'll leave it as is for now.
- Under Conversation steps, you can see the steps that make up the action. A step is an interaction between the assistant and the customer; steps are executed in order, from first to last. You can reorder the steps in an action by clicking and dragging steps in the list.
- The **Preview** button opens a pane that shows you how the assistant responds to customer input. You can preview the assistant at any time to see the effect of changes you have made.

The action editor supports basic Markdown syntax.

Steps

An action consists of one or more *steps*. The steps in an action define the conversation turns that follow the initial customer input that triggered the action. In a simple case, a step might consist of a direct answer to a question from the customer; for example, if the customer asks



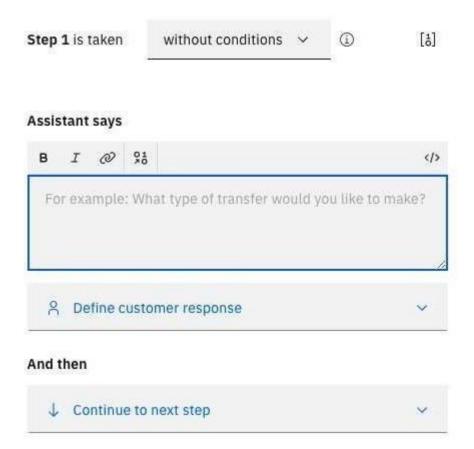
□ Which account should the money come from? □ What is the amount to withdraw?

Each of these follow-up questions represents a step in the action.

Editing a step

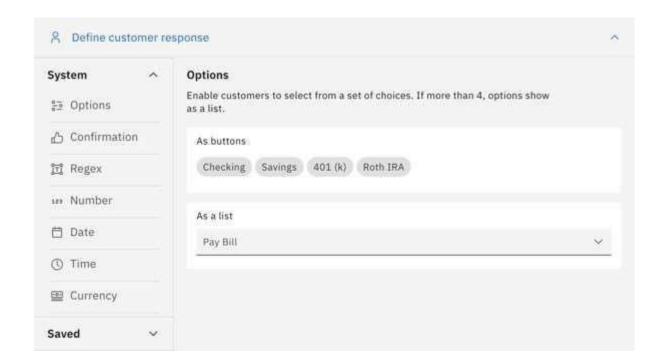
Within a step, you define the following things:

- Any conditions that determine whether the step is processed at run time. (By default, a step is always processed if matching user input is received.)
- What the assistant says to the customer when the step is processed.
- Rules for how the customer can reply to what the assistant says (if any response is expected).
- What to do after the step finishes.



Let's edit step 1 to find out which account the customer wants to withdraw money from:

- 1. In the **Step 1 is taken** field, leave the default value of **without conditions**. This step is always required for any withdrawal.
- 2. In the Assistant says field, type Withdraw from which account?
- 3. Click **Define customer response**.



Because we are asking the user to select from a list of predefined choices, click **Options**. The Edit Response window opens.

4. In the **Option 1** field, type for option 2. As soon as you enter a value for option 1, a field appears

Edit response

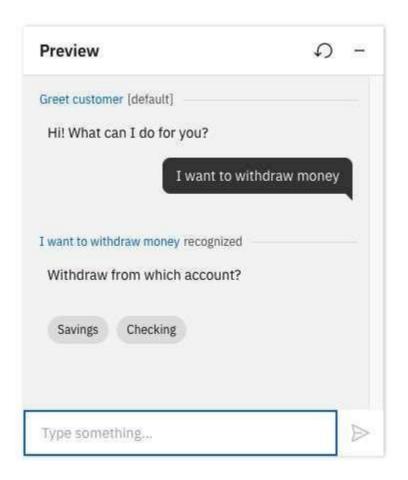
Туре:	Options	Add synonyms +
	Option 1	
.iis	Savings	
	Option 2	77
	Examples: Small, Large	
The second	skipping or always ask? kip if the customer already gave thi	s information
	lways ask for this information, rega	
vigate	to Option 2 and type Checking.	

5. For Allow skipping or always ask?, select Skip if the customer already gave this information. This option tells the assistant to skip this step if it recognizes that the customer already specified the account type previously; for example, if the initial withdraw money from my savings account customer input was, we need to ask again.

Click **Apply** to save the customer response.

6. Now we can check to see if the step works like we expect. Click **Preview** to open the Preview pane, and type

| I want to withdraw money :



As expected, the assistant now prompts you to select the account you want to withdraw money from.

Duplicating a step

You can duplicate a step so you don't have to re-create variable settings and customizations. Duplicating a step is helpful when you need to add a step similar to a previous step, but with minor modifications.

Complete the following steps to duplicate a step:

1. Click the **Duplicate** icon on the step that you want to duplicate.



A step appears immediately following the step that you duplicated. This step is identical to the duplicated step and displays a blue circle in the upper right to indicate that the step is a duplicate.



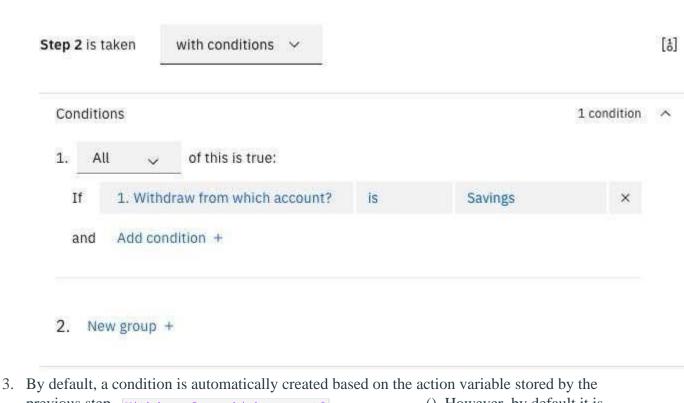
2. Edit the information in the new step as necessary.

Adding conditional steps

Suppose our bank charges a fee for withdrawals from checking accounts, and we need to confirm that the customer understands this. This means that our action needs to have slightly different behavior depending on which kind of account the customer selects. We can handle this using step conditions.

When a step asks for information from the user, the user's response is stored as an *action variable*. By referring to the action variables stored by previous steps, you can construct step conditions based on your customer's previous responses.

1. Click New step. 2. In the Step 2 is taken field, select with conditions. The Conditions section expands.





- 4. In the Assistant says field, type

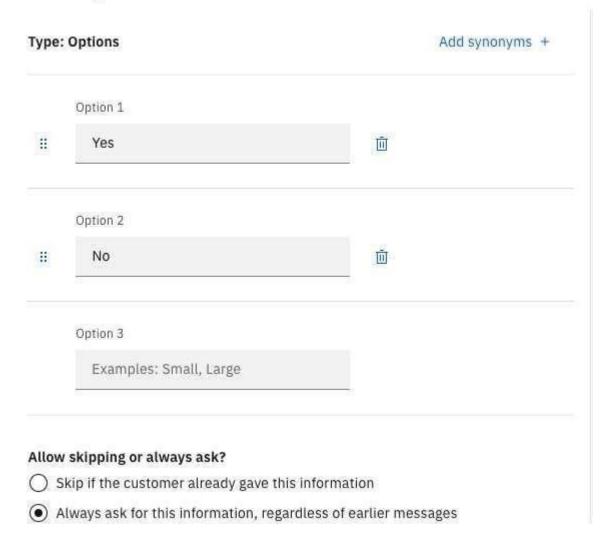
 Do you want to continue?

 Withdrawals from checking accounts might incur a fee.
- 5. Click **Define customer response** and select **Options**. This time the options are simply .

 Yes and No Because we want to make sure the customer always agrees explicitly, select

 Always ask for this information, regardless of earlier messages.

Edit response

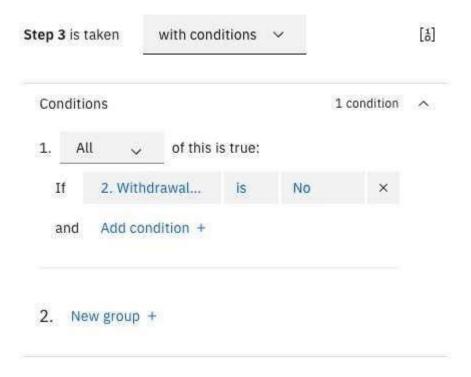


Click **Apply** to save the customer response.

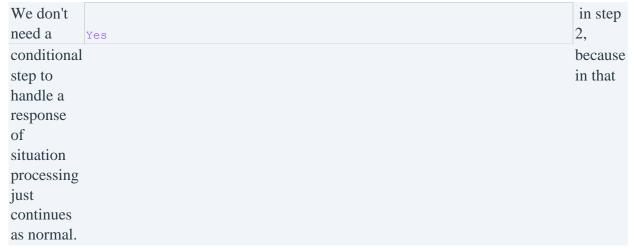
Now we need another conditional step to handle the situation where the customer has decided not to continue.

- 1. Click New step.
- 2. In the Step 3 is taken field, select with conditions.
- 3. Edit the condition so it checks to see if the customers response to step 2 was

X



- 4. In the Assistant says field, type
- 5. In the **And then** field, select (meaning that the customer has decided not to proceed), no subsequent steps in the action will be executed.



Getting the amount

We need one more piece of information before we can complete the customer's request: the amount of money to withdraw.

- 1. Click New step.
- 2. In the Assistant says field, type How much do you want to withdraw?
- 3. Click **Define customer response**. This time we need the customer to specify a monetary amount, so select **Currency**. There are no more details you need to specify for a currency amount, so it is immediately added to the step.

Finishing the action

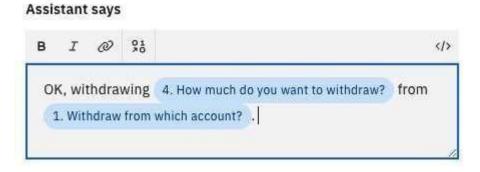
We now have all the information we need. For our example, we're not going to implement any real logic for making a withdrawal, but we can send a final message summing up what we're doing.

To do this, we need to insert action variables (representing customer responses from previous steps) into our response. At run time, these action variables will be replaced with the actual values supplied by the customer.

- 1. Click New step.
- 2. Now we need to build a confirmation message that says "OK, we will withdraw *amount* from your *account_type* account."

To create this response, type the text of the message in the **Assistant says** field, but in place of the variable values, click the **Insert a variable** icon to insert references to action variables:

- For *amount*, select **4. How much do you want to withdraw?**.
- For *account_type*, select **1. Withdraw from which account?**.



3. Because this is the last step in the action, you don't need to specify any customer response. If you decide a step is no longer needed, you can delete it from the action. To delete a step, click the **Delete**icon on the tile for the step.

Testing the action

We can now test the action to make sure it's working like we expect. Click **Preview** to open the Preview pane. (If the text from a previous test is still shown, click the **Refresh** icon to restart the conversation.)

Start by typing how the . Try various permutations of your input to test assistant behaves:

• Try selecting both savings and Checking assistant warns . Confirm that if you select Checking, the assistant warns you about incurring a fee and asks if you want to continue, but if you select, it proceeds without the warning.

- When you select continue. try both responses when the assistant asks if you want to Confirm that if you select, the action ends.
- Try including additional information in your initial message. For example, try [typing want to withdraw \$50 from my savings account you again to specify the information you already provided.

That's it! You have built a simple action that includes multiple steps, collects information that it stores as action variables, and conditions its responses based on what your customer chooses. There is a lot more you can do with actions, but all of it is built on this basic pattern.

Output:

