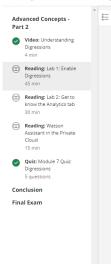
Prev | Next

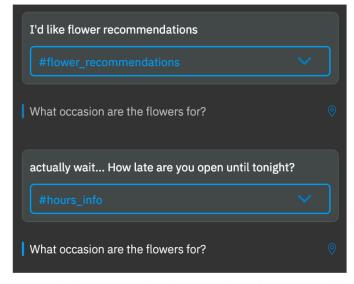
ilding Al Powered Chatbots Without Programming > Week 4 > Lab 1: Enable Digressions



## Exercise 1: Handling user digressions

Slots are awesome. However, their stubborn nature (for required slots that specify a question) can come across as rude if we are not careful. They keep the user to the task, which is fine if the user enters something irrelevant. It's less okay if the user is asking a legitimate side question, however.

Consider the following interaction.



That's not great. It looks like we completely ignored the user's legitimate question. Notice also that the chatbot understood what the user wanted (i.e., #hours\_info was detected) but we were still somewhat rude to them by not addressing their digression.

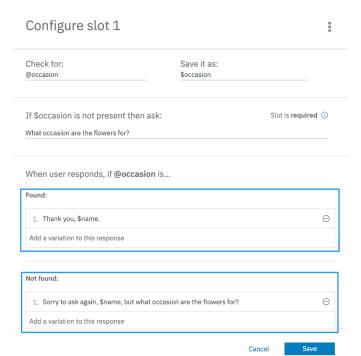
## Configuring Found and Not Found responses

A first course of action we have is to use the Slot's Found and Not Found responses. These are issued to the user before the node's own responses (in our case the actual flower suggestions for the given occasion), so they allow us to interject a message before the node replies to the user.

Let's see them in action.

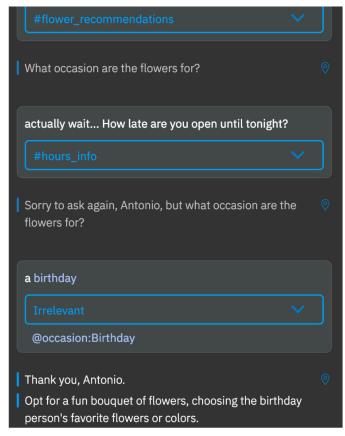
- 1. Select the Flower Recommendations node and click on the gear icon next to Required in our node's slot.
- 2. Configure the slot by adding a Thank you, \$name. response in the *Found* section.

3. Add a Not Found response that says, Sorry to ask again, \$name, but what occasion are the flowers for? as shown in the image below. Then click Save, (Variations are also possible to make the chatbot less repetitive.)



Now, when we try the interaction again, we get a slightly more friendly interaction.

I'd like flower recommendations



That's better, maybe even good enough. We are apologizing when we have to ask again, and we are thanking the user when they provide the answer we need. Since we have their name, we sweetened the deal by including it in our messages.

But... we are still not answering the user's legitimate side question about hours of operation. To properly actually handle that, we'll need *Digressions*.

## **Enabling Digressions**

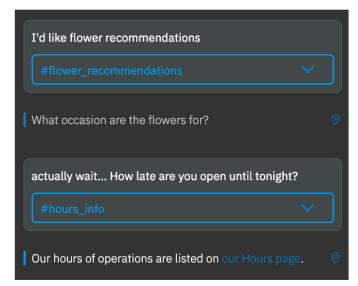
Digressions are a feature that enables nodes to pass control to a different node while they are processing a slot. What this means is that they allow the dialog to respond to a user's side question, while they are in the middle of answering a slot.

Let's see them in actior

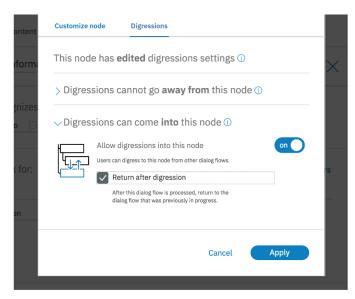
1. The first thing we need to do is ensure that the node containing the slot allows digressing away from it. Select the Flower Recommendations node again and click on Customize, and then its Digressions tab. Here you'll want to expand Digressions cannot go away from this node by clicking on the > next to it and turn on the option to allow digressions away from this node. Make sure you click Apply.

With the digression away enabled in our node, we'll now be able to ask other questions in the middle of answering the slot's question and get a proper response for them. Technically, the nodes we digress into need to allow the digression, but that's the default setting so we don't have to worry about it. (Should you ever need to prevent a node from being digressed into, you can disable the *Digressions can come into this node* for that node.)

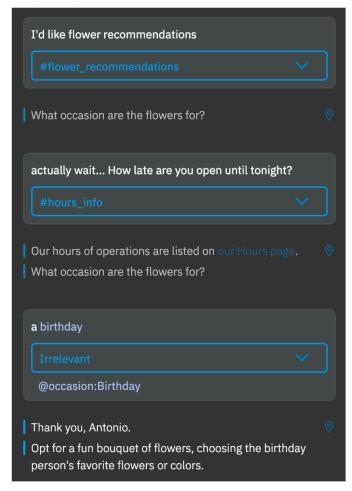
Let's see how this altered our interaction.



Awesome. We fixed our original problem. However, you might notice that we don't come back to the original question about flower recommendations. This may or may not be what we want, depending on our chathot. If we'd like to return, we'll need to explicitly set **Return after digression** in the nodes we might digress to. Go ahead and set the option for all three nodes with slots (i.e., Hours of Operation, Location Information, and Flower Recommendations) as shown below.



Don't forget to click on Apply, and then test the interaction again, as shown in the image below



That's quite nice! Our chatbot interacts like a polite human would in such a conversation.

- Technically, neither Hours of Operation nor Location Information have required slots, so we don't need digressions. But in the
  future, we might decide to make their slots mandatory, so as an exercise, there is no harm in enabling the digression for both
  nodes now. Go ahead and enable Allow digressions away for both nodes.
- 3. Test a few conversations with your chatbot from the WordPress site you deployed to earlier in the course.

Found and Not Found responses, along with Digressions, are useful tools to add further polish to our chatbot and make it appear more human-like in its interactions with our users.

## Handlers

We didn't need it in our chatbot, but sometimes we might want to execute certain actions if the user responds to a slot in a certain way. For example, if we detect that the user is trying to cancel a reservation, we want to escape/exit the slot rather than continue to pester the user for details until they get frustrated and just leave the chat.

Found and Not Found do not allow us to attach any condition to the responses, and they don't really allow us to exit the slot either.

To have conditions and skip a slot, you'll need *Handlers*, accessible via the *Manage Handlers* link. Handlers are evaluated even before the *Nat Cound response* is issued.

This is what a Handler's response might be configured to escape the slot when the user cancels a reservation.

If assistant recognizes:

#cancel\_reservation ⊕ 

Then respond with:

1. Got it, \$name. We won't reserve your table.

Add a variation to this response

And finally

Skip current slot ✓

Again, this is not relevant to our chatbot, but I wanted you to know about their existence and why they might be useful at times.

Congratulations on getting so far into the course. We're almost done. Meanwhile, if you need it you can download and import a JSON file of the dialog skill we created so far.

Mark as completed