Module - 4

SAP







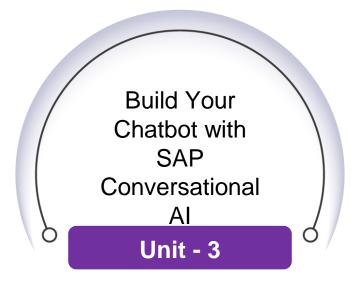




Units for Discussion









Unit - 1

Build Your Chatbot with SAP Conversational AI





DISCLAIMER

The content is curated from online/offline resources and used for educational purpose only.



Learning Objectives

- Create SAP Conversational Al account
- Create new bot project
- The 4 stages of a bot's life
- Fork intent
- Create new intents
- Add expressions
- Test bot
- Manage conversation flow with skills
- Create new skill
- Test by chatting with bot



Source:



Lab - 1

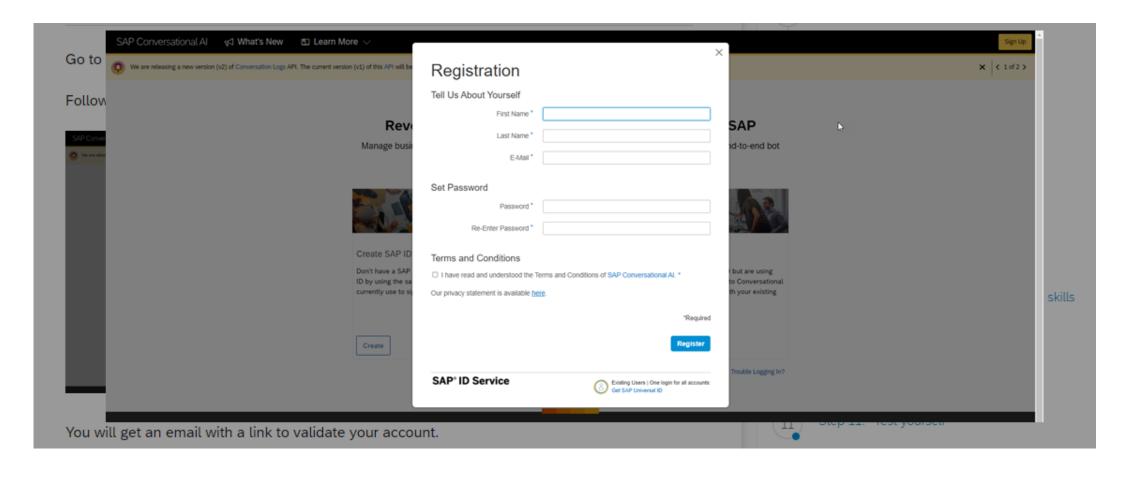
Create a new bot project



Create SAP Conversational AI account

Go to https://cai.tools.sap/, and click Sign Up in the upper-right corner.

Follow the instructions for creating an account.

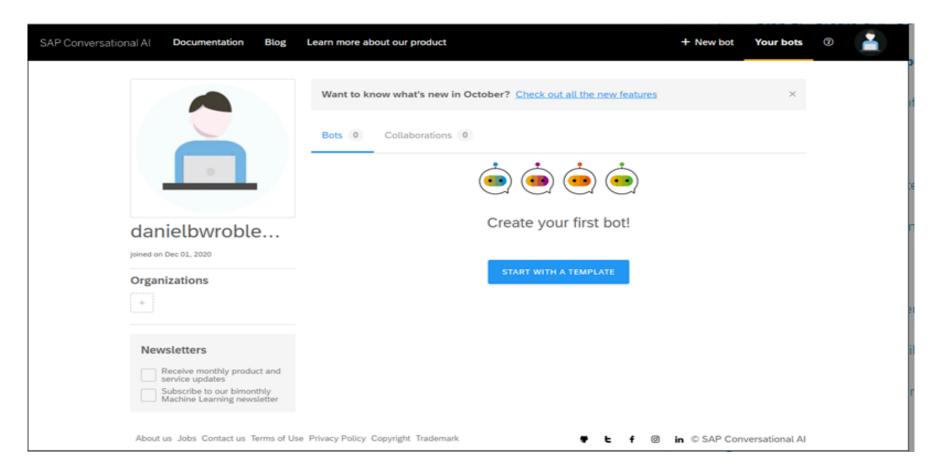




Create new bot project

1. Do one of the following:

If you just validated your account by clicking the link in your email, click Start with a Template.

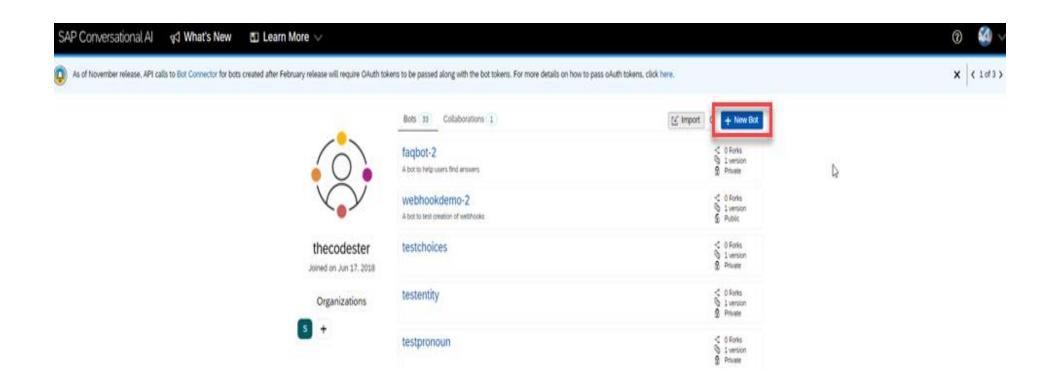




Create new bot project

If you are returning:

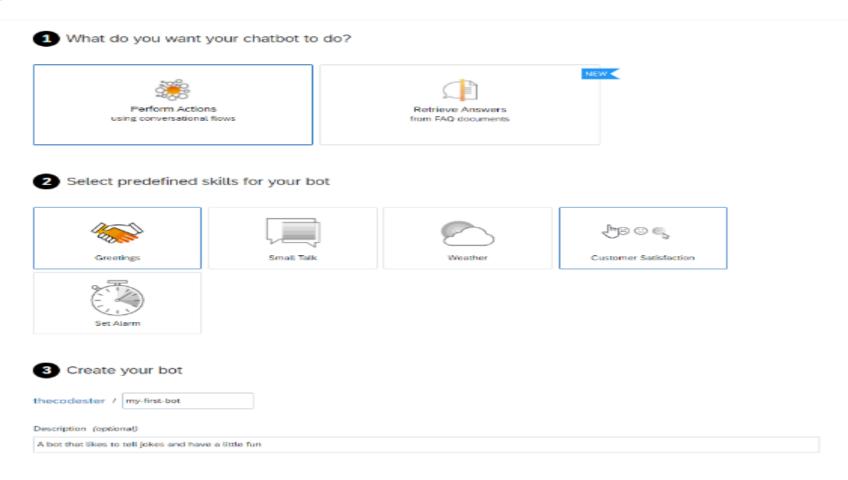
- Go to your home page by opening the URL https://cai.tools.sap/ and sign in.
- Click New Bot.





Create new bot project

For Bot visibility, select Public.



3. Click Create a bot.

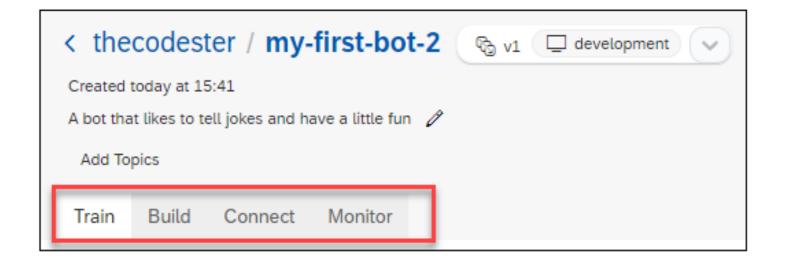


The 4 Stages of a bot's life

- Train: Teach your bot what it needs to understand.
- Here you will create intents ideas your bot will recognize using expressions that the bot should recognize coming from the user.
- Build: Create your conversational flow with our Bot Builder tool. Here you give your bot skills it can perform.
- Here you will create skills things your bot can do and define when they will be triggered. Your skills are defined by triggers, requirements (information your bot must collect), and the actions.
- Connect: Ship your bot to one or several messaging platforms.
- **Monitor:** See how users are communicating with your bot, check if the bot is understanding users correctly, and make updates to the bot's intents/entities. Monitoring also lets you see what your users want, and gives your ideas of what additional capabilities you could add to the bot.

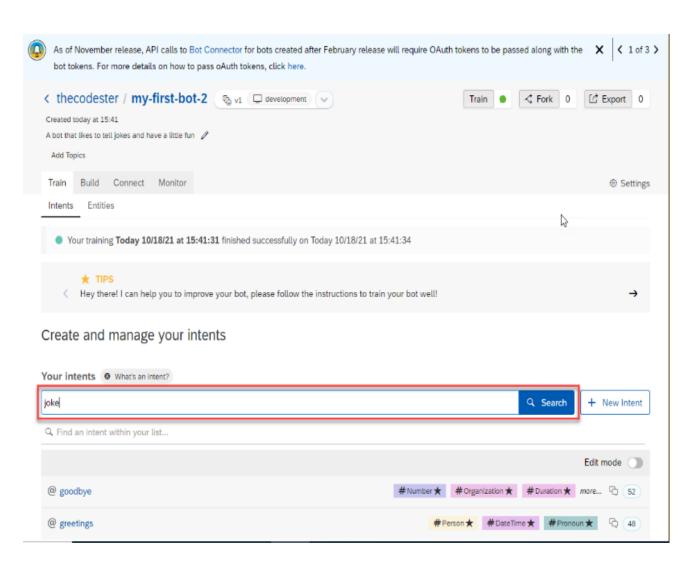


The 4 Stages of a bot's life



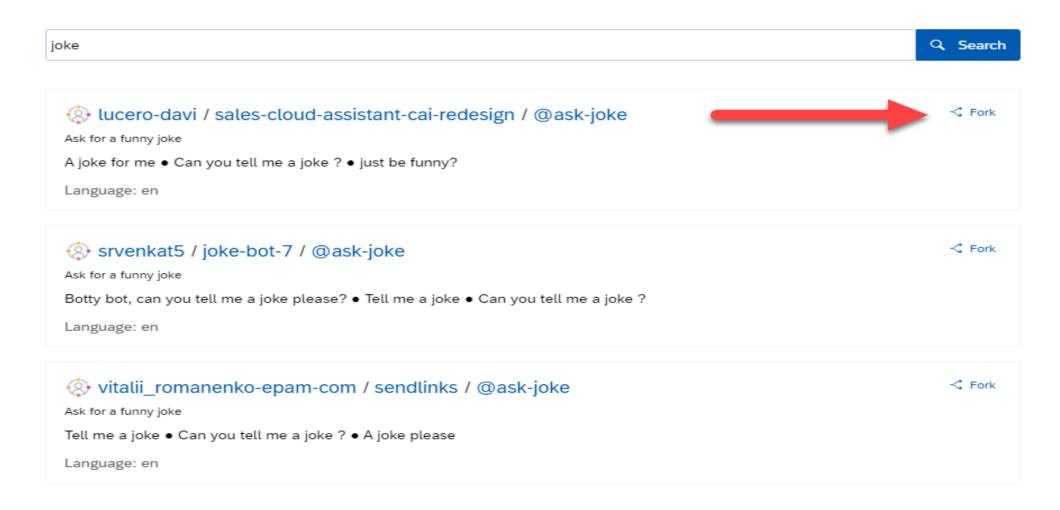


- Now we will work in the Train tab, where will build intents. Remember, intents are the things people want to tell our bot. Within an intent, we indicate all the possible expressions that a person might use to communicate that intent.
- As SAP Conversational AI is collaborative, you
 do not have to re-create each intent every time.
 You can "fork" an intent someone has already
 created and clone it right into your bot.
- Go to the Train tab.
- In the Search box, enter joke, and press Search.





You will get a list of intents to fork.





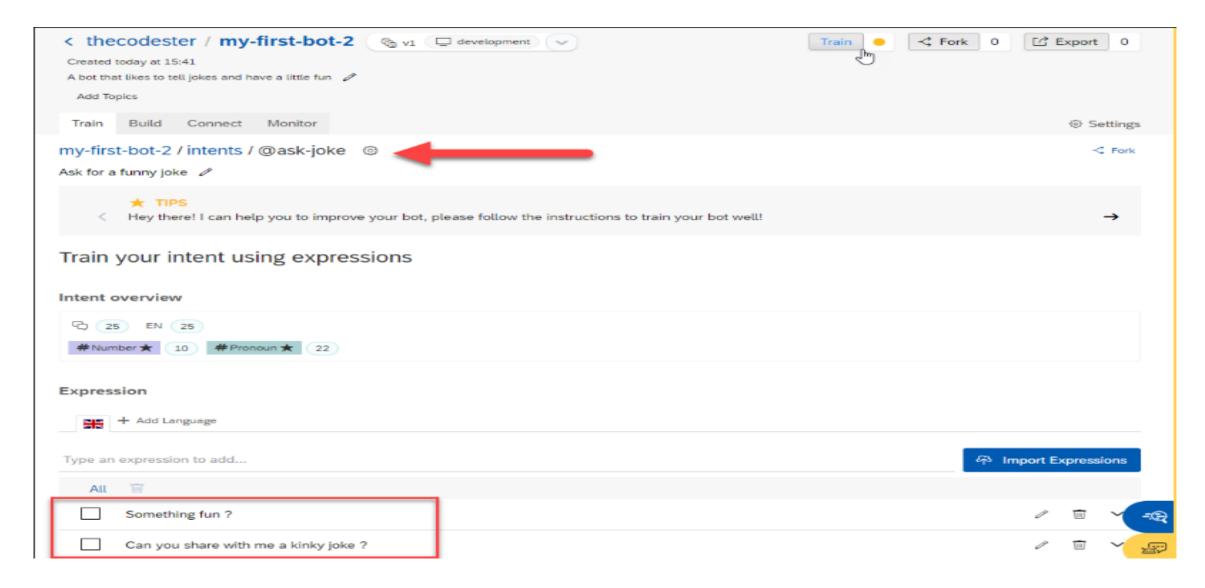
3. Click **Fork** for the first <code>@ask-joke</code> intent.

There are many existing intents and the choices are always changing.

4. Explore the intent by clicking on it.

In the intent we forked, there are 2 expressions to discern if someone wants to be told a joke. In yours, you may receive more expressions.

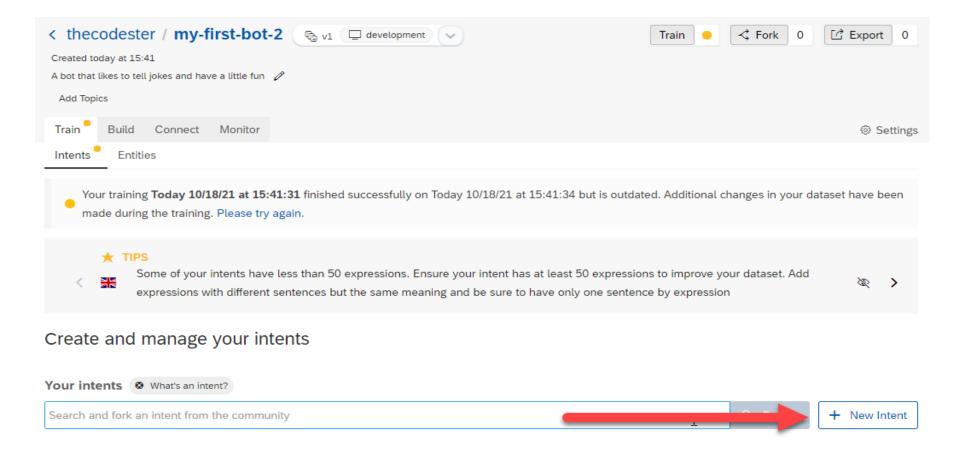






Create New Intents

- 1. Click the Train tab.
- 2. Create an intent for recognizing good reactions to jokes.





- For the name of the intent, enter laughs.
- For the description, enter A natural reaction to our awesome jokes.

Let's create your intent



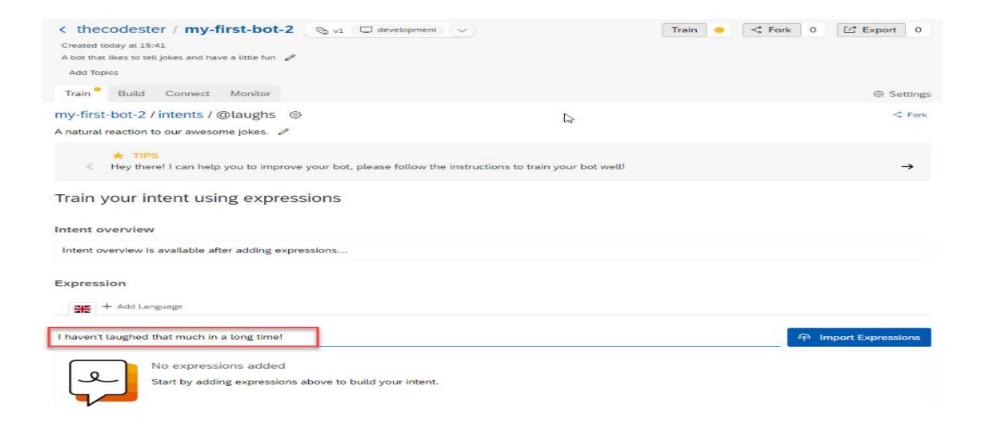


- 3. Create a second intent, this time for bad reactions to jokes.
 - 1. Click Create.
 - 2. For the name of the intent, enter lame.
 - 3. For the description, enter You can't succeed every time.
 - 4. Click Create Intent.



Add expressions

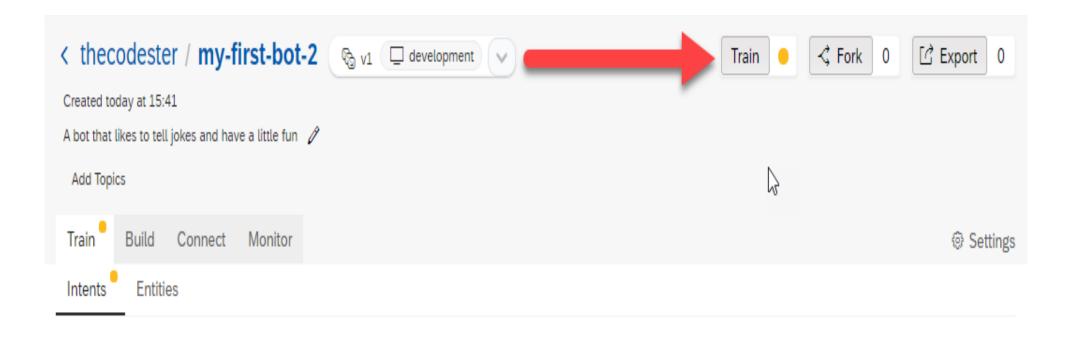
- 1. Click on the @laughs intent.
- 2. In the expression field, enter a sentence you want your bot to understand, then press Enter.





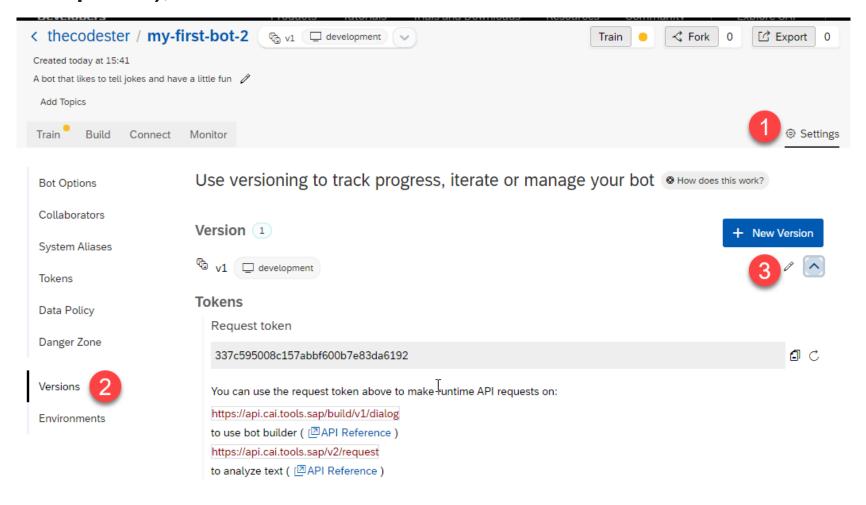
Train bot

- Click the Train button at the top-right, so that the bot trains itself based on the latest intents and expressions
- The button indicates the current status of training: Yellow is out of date, blue is training, green is up to date.





You can change the settings so the bot automatically trains itself at Settings > Version >
 (current version dropdown), and scroll down to





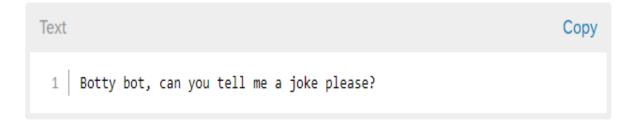
2. At the bottom of the panel, open the **Expression Analysis** tab.

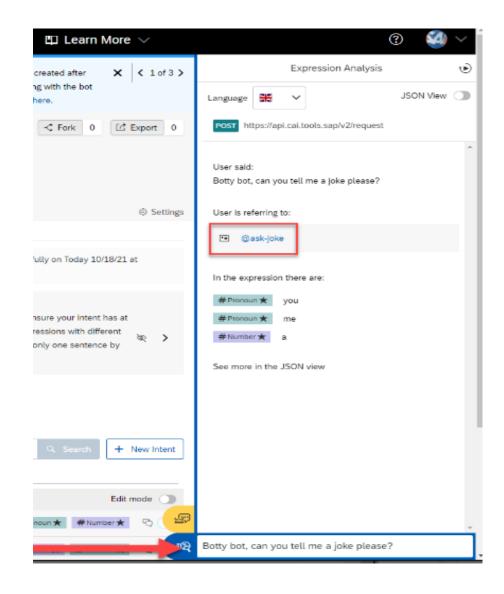
Create and manage your intents





3. Enter something that you think should match the intent, like:

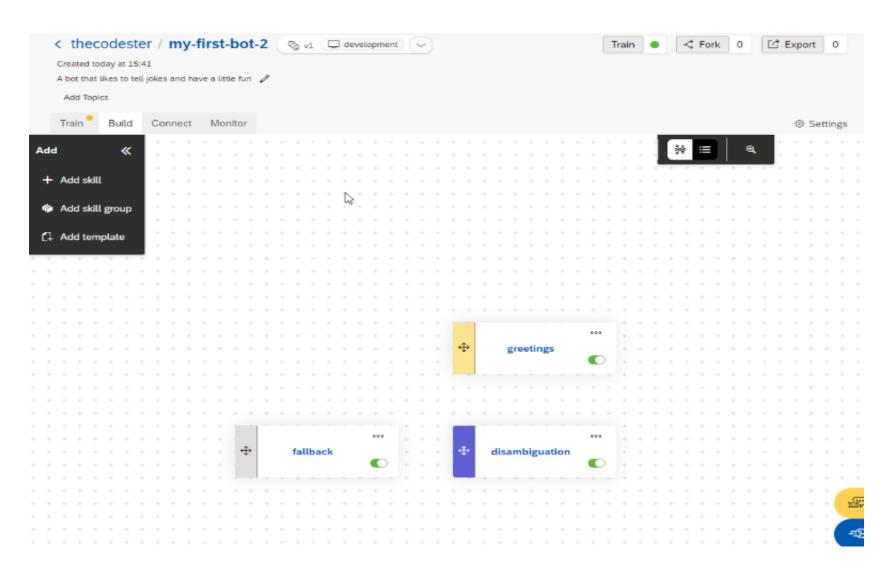






Manage Conversation flow with Skills

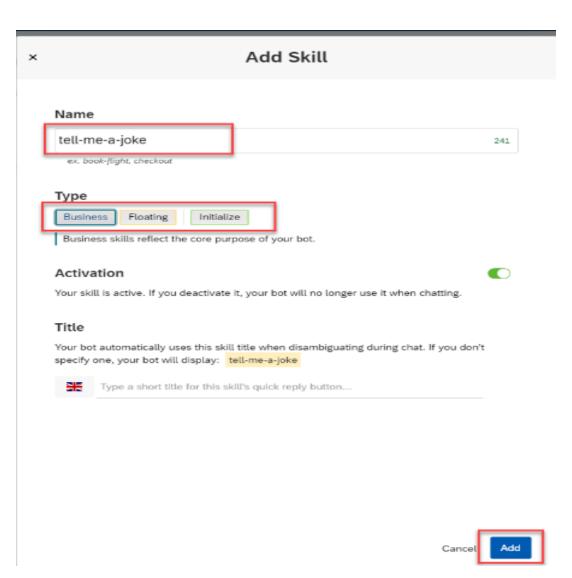
Open the Build tab





Now let's build a skill to tell a joke.

- 1. Go back to the Build tab where you see the canvas.
- 2. Click Add skill.
- 3. Call your skill tell-me-a-joke, set the type as Business, and click Add.



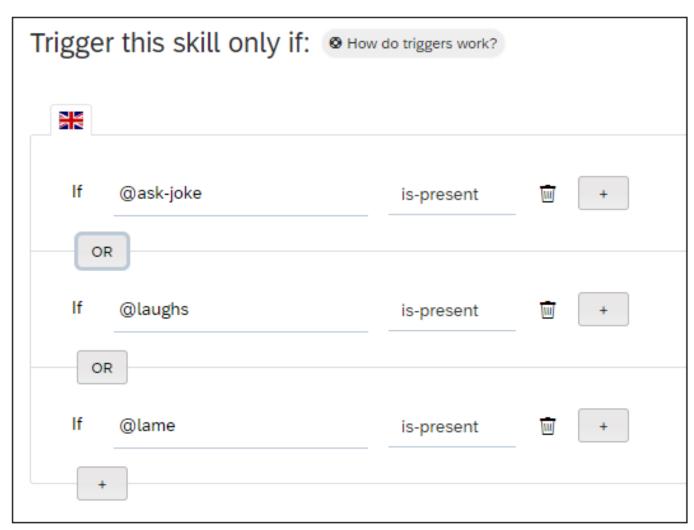


- 4. Click the new tell-me-a-joke skill, and open the Triggers tab.
- 5. Add 3 If statements, one for each of the @ask-joke, @laugh, and @lame intents.
- Click in the empty space right after If, select the @ask-joke intent, and then click Save.

Trigger this skill only if: ⊗ How do triggers work? 2 Z lf entity is detected in the conversation User says @lame _sentiment #Cardinal @laughs #Color _source @ask-joke #Datetime _language @goodbye #Distance _processing_language @greetings #Duration memory skill #Email skill occurences #Emoji _conversation_language #Interval #lp _client_info #Job #Language #Location View more about conditions You can easily use the entities + New Intent enrichment, ex: #location.lat



- Click on the + sign Add a new list of conditions and repeat the above for @laughs and @lame intents.
- Change the logical conditions to or between each If statement, simply by clicking And.



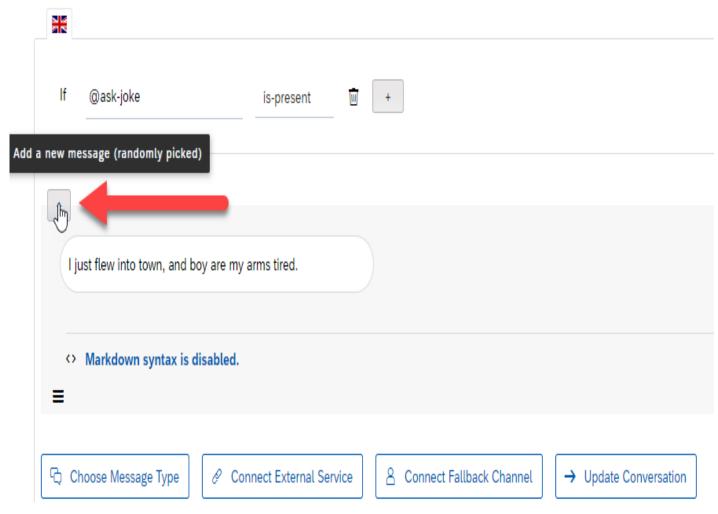


- 6. Go to the Actions tab.
- 7. Click New Action Group, then Add Condition.
- After the If, select the @ask-joke intent, and click Save.
- 8. Click Choose Message Type, choose the Text format, and type in a really good joke, like:

I just flew into town, and boy are my arms tired.

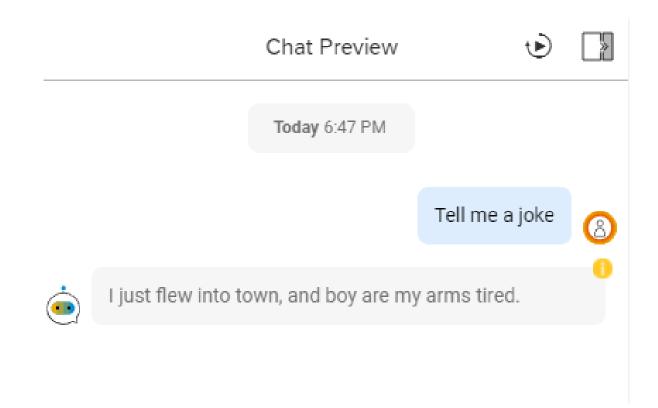
9. Click Save.

When all requirements are met, craft your bot's response What's an action?





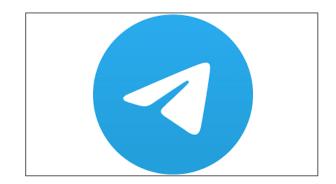
Test by chatting with bot

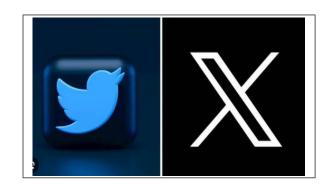




Integration

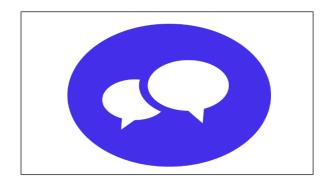














Lab - 2

Integration with Telegram



Assignment

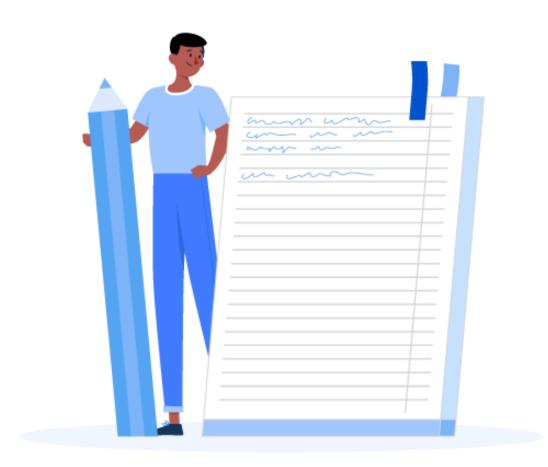
- Build a chatbot for travelling website
- Build a chatbot for your institution
- Build a chatbot for career counselling
- Build a chatbot for e-commerce websites
- Build a chatbot for Health Care
- Build a chatbot for HR Recruitment

Note: You can take reference from Disha the official IRCTC Chatbot, Amazon & Flipkart chatbot etc.



Conclusion

- We have completed this section and now we have understood about:
- SAP Conversational AI is a powerful platform for building and deploying chatbots and virtual assistants.
- A clear understanding of the lifecycle of a bot.
- · Creating new intents, skills.
- Testing the bot before deploying it to users.



Source:



References

- https://cai.tools.sap/
- https://learning.sap.com/learning-journey/utilize-low-code-no-code-applications-and-automations-for-citizen-developers
- https://learning.sap.com/learning-journey/getting-started-with-ux
- https://learning.sap.com/learning-journey/discover-sap-business-technology-platform
- https://learning.sap.com/learning-journey/explore-sap-analytics-cloud
- https://learning.sap.com/learning-journey/get-started-with-abap-programming-on-sap-btp
- https://learning.sap.com/learning-journey/discover-the-foundations-of-sap-commerce-cloud-andsap-s-4hana-cloud-integration







- 1. What is the first step in getting started with SAP Conversational AI?
- a) Create a new bot project
- b) Create an account
- c) Define intents and expressions
- d) Test the bot

Answer: B

Create an account





- 2. How can you test a bot in SAP Conversational AI?
- a) Create a new skill
- b) Fork an intent
- c) Add expressions
- d) Chat with the bot

Answer: D

Chat with the bot





Answer: A

3. What are the four stages of a bot's life in SAP **Conversational AI?**

- Creation, Training, Deployment, Optimization a)
- Design, Testing, Deployment, Monitoring b)
- Setup, Development, Testing, Launch
- Initiation, Learning, Interaction, Improvement d)





4. What does it mean to "fork intent" in SAP Conversational AI?

- a) Create a new bot project
- b) Duplicate an existing intent to create a new one
- c) Test the bot's responses
- d) Manage conversation flow with skills



Duplicate an existing intent to create a new one





5. Which of the following is a step in creating new intents in SAP Conversational AI?

- a) Testing the bot
- b) Managing conversation flow with skills
- c) Adding expressions
- d) Creating a new account







Thank You