

Name - Yash Lakhtariya
Enrollment number - 21162101012
Branch - CBA Batch - 61
EADC Practical 13

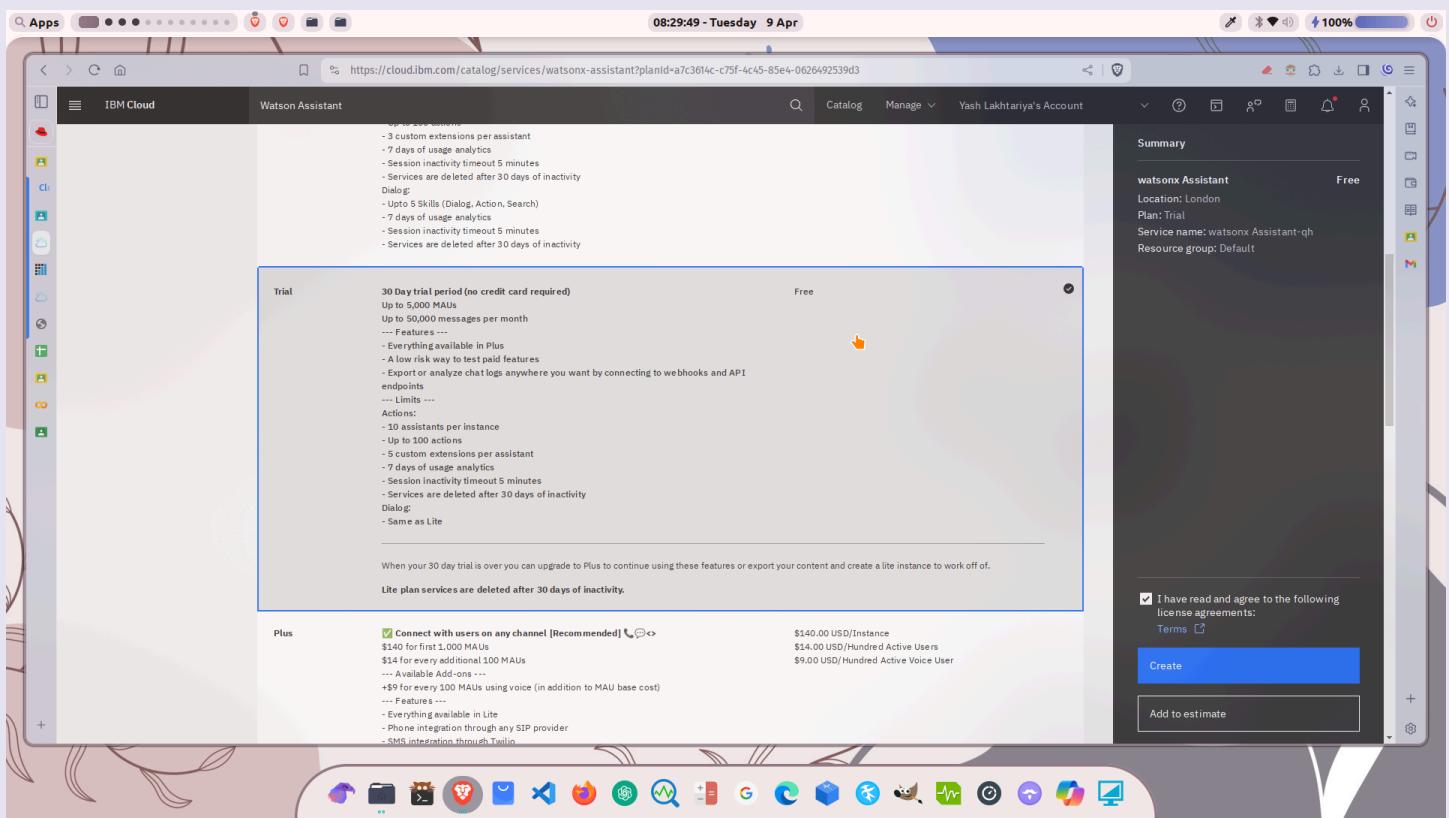
Aim : Build Chatbot applications for more than one sectors like: Hospital, Industry, Banking etc, using Artificial Intelligence (AI) services and Watson assistance Services.

1. Create a Chatbot application intent and dialog regarding specified field

2. Deploy application to achieve functionalities of Chatbot regarding any sector or field.

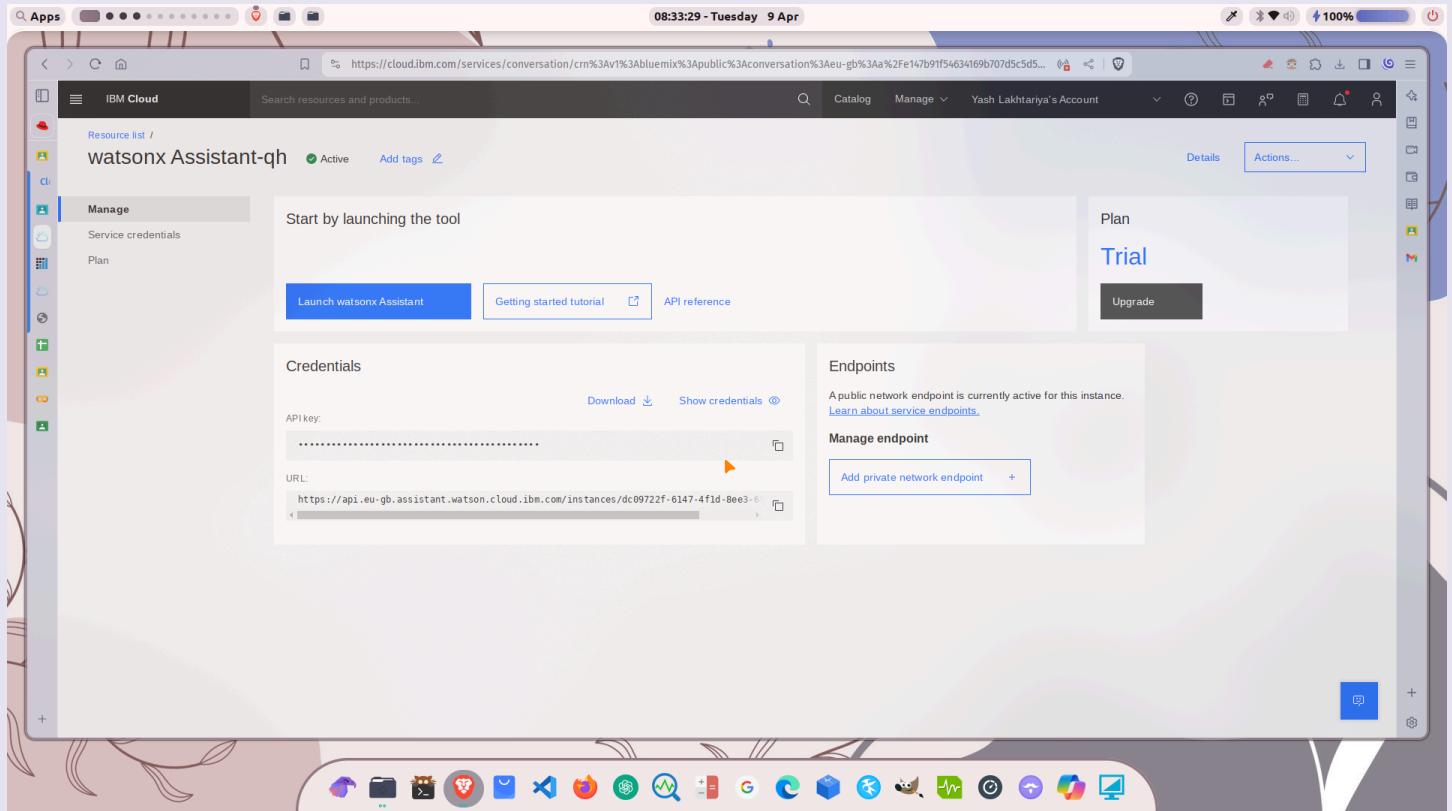
Steps and Screenshots :

1. Visit watsonx assistant and create service with trial or lite plan



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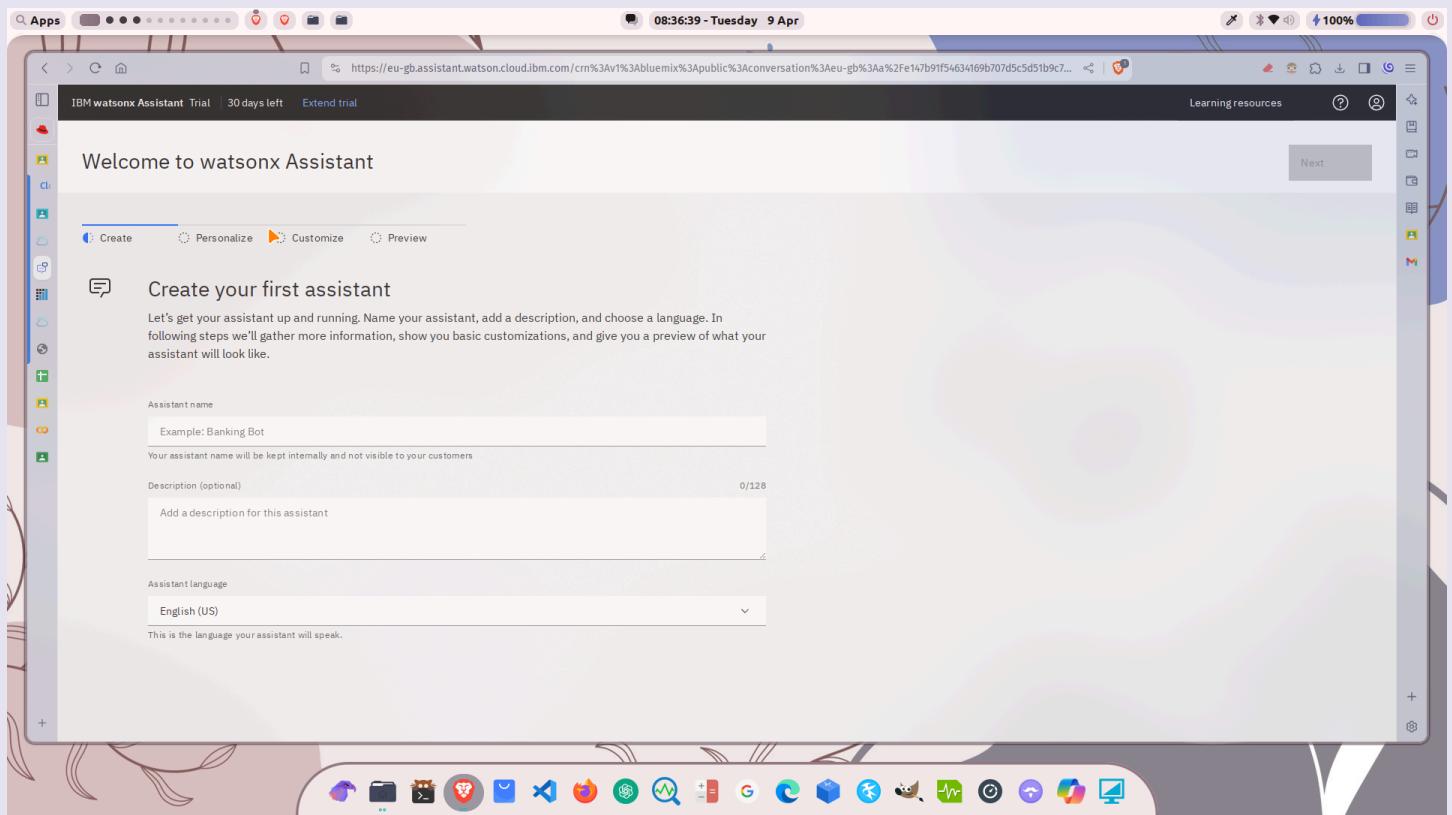
2. As seen, the service and credentials are created



The screenshot shows the IBM Cloud interface for managing a Watson Assistant service named "watsonx Assistant-qh". The service is listed as "Active" and has a "Trial" plan. The "Manage" section includes links for "Service credentials" and "Plan". Below this, there's a "Start by launching the tool" section with "Launch watsonx Assistant", "Getting started tutorial", and "API reference" buttons. The "Credentials" section displays an API key (redacted) and a URL: <https://api.eu-gb.assistant.watson.cloud.ibm.com/instances/dc09722f-6147-4f1d-8ee3-6>. The "Endpoints" section indicates a public network endpoint is active. A "Manage endpoint" button is present. The top navigation bar shows the URL <https://cloud.ibm.com/services/conversation/cm%3Av1%3Abluemix%3Apublic%3Aconversation%3Aeu-gb%3Aa%2Fe147b91f54634169b707d5c5d5...>, the date/time "08:33:29 - Tuesday 9 Apr", and a battery level of "100%". The bottom of the screen shows a dock with various application icons.

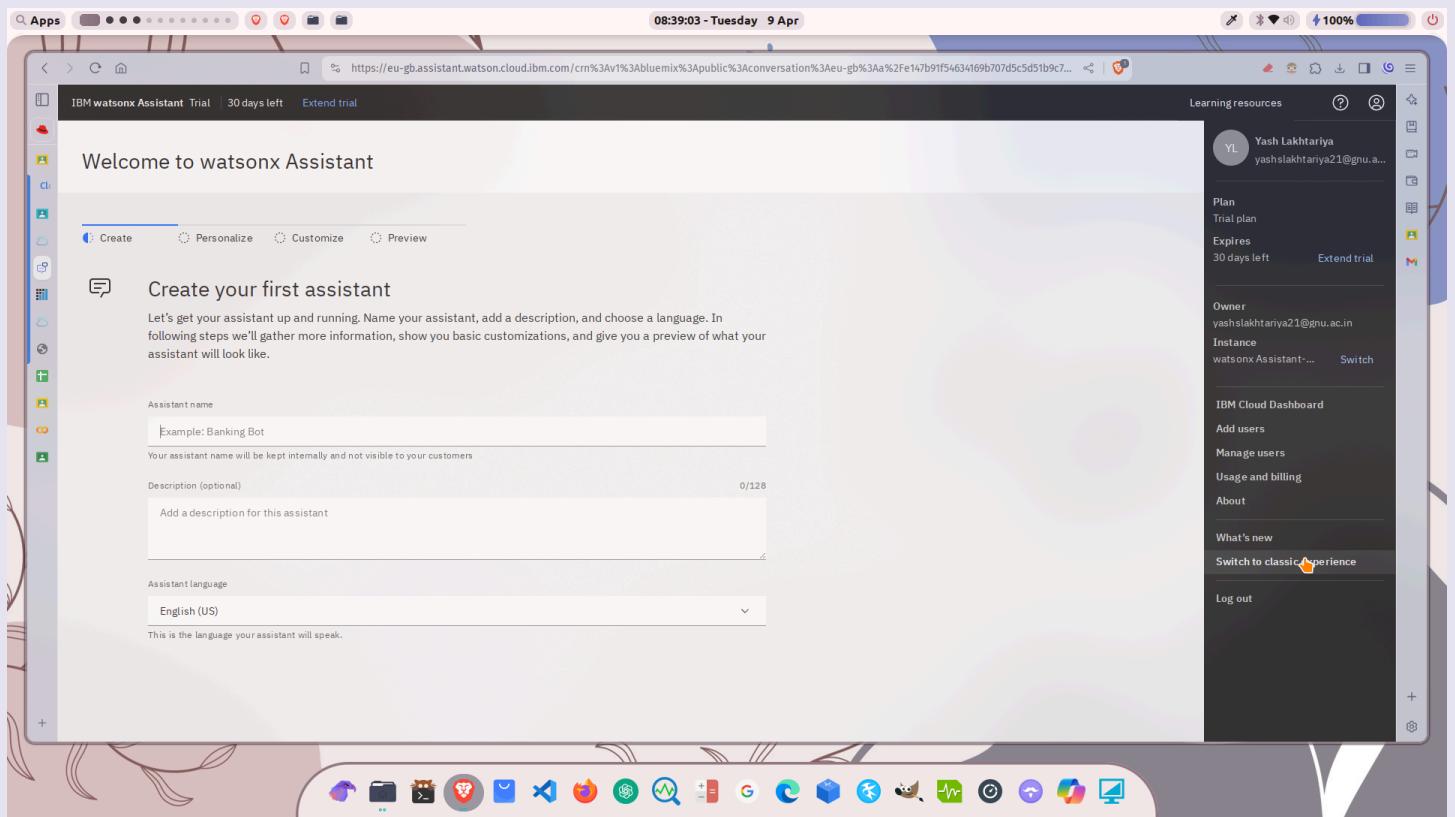
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3. Click Launch option and login via IBM to the Watson assistant



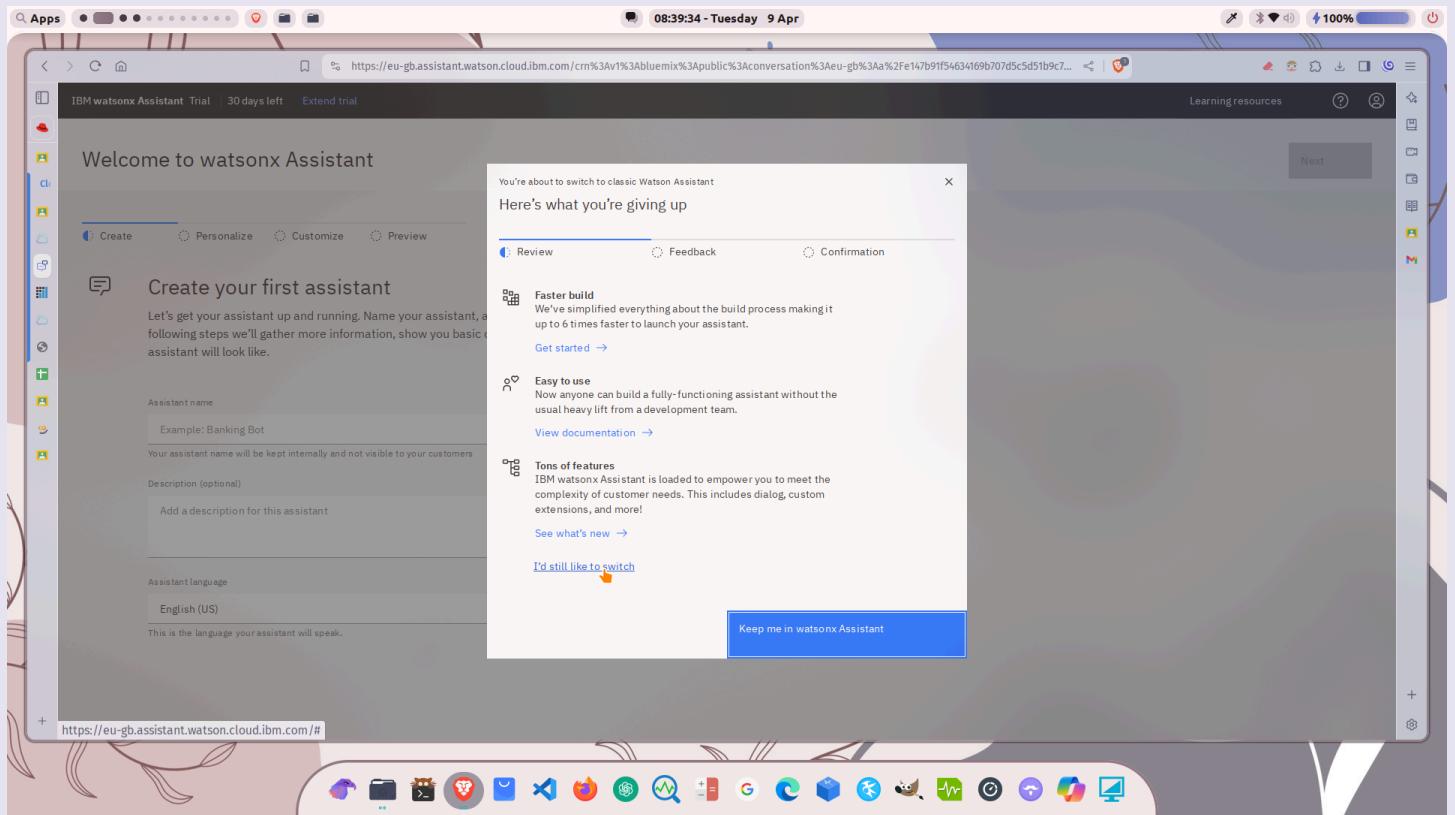
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4. Click switch to classic experience from Manage tab at top right



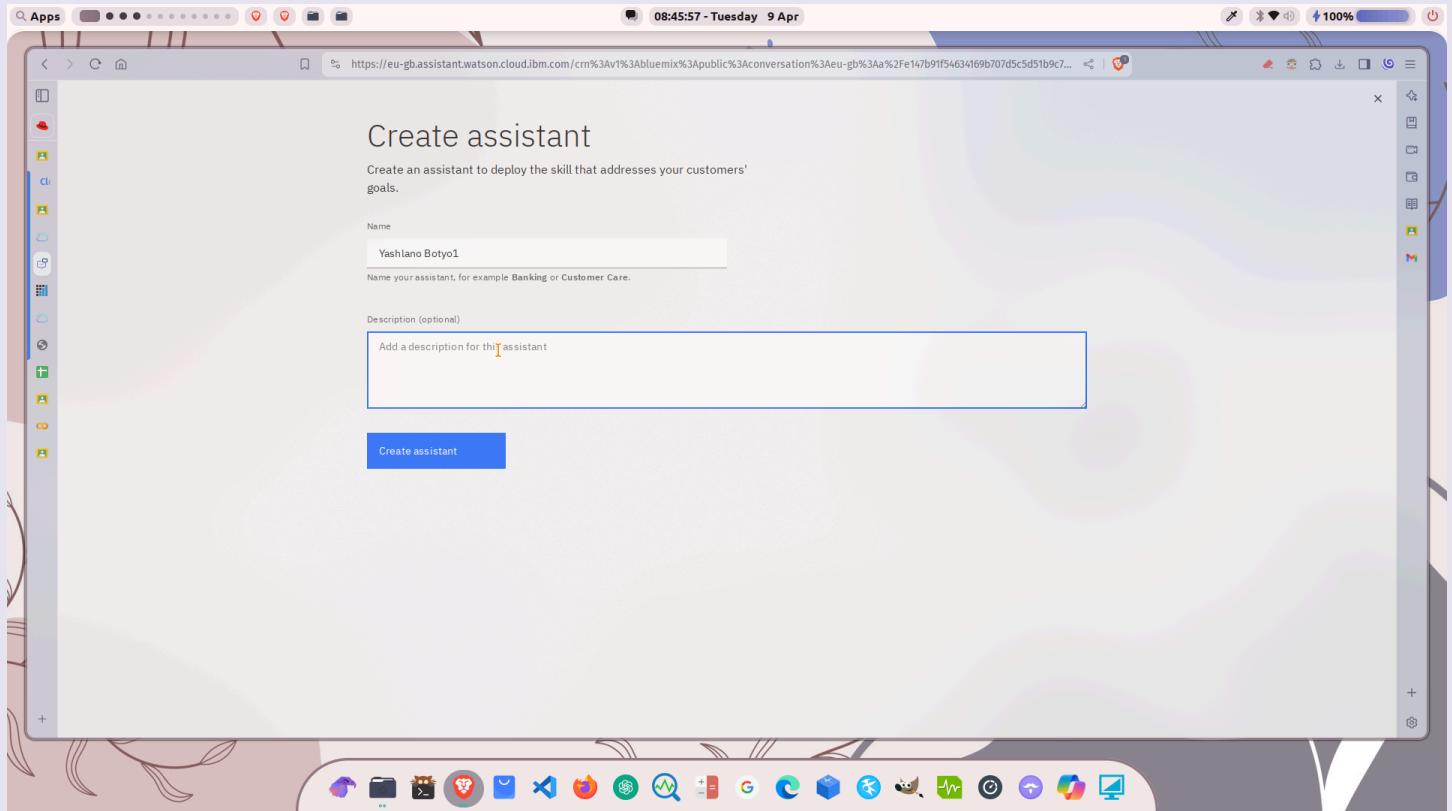
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5. Confirm and switch



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6. Assign name and create assistant from classic experience



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7. Click add an action or dialog

The screenshot shows the IBM Watson Assistant Trial interface. On the left, there's a sidebar with various icons. The main area has a title bar with 'IBM Watson Assistant Trial | 30 days left' and 'Upgrade'. Below this, it says 'Yashlano Botyo1'. The central part is titled 'Actions or Dialog' and contains two sections: 'Build conversations' and 'Search'. The 'Build conversations' section includes a list of actions and a 'Add an actions or dialog skill' button. The 'Search' section includes a list of search skills and a 'Add search skill' button. To the right, there's a 'Steps to go live' sidebar with several items, some of which are checked (e.g., 'Set up your assistant'). At the bottom, there's an 'Integrations' section with options like 'Integrate web chat' and 'Integrate phone'.

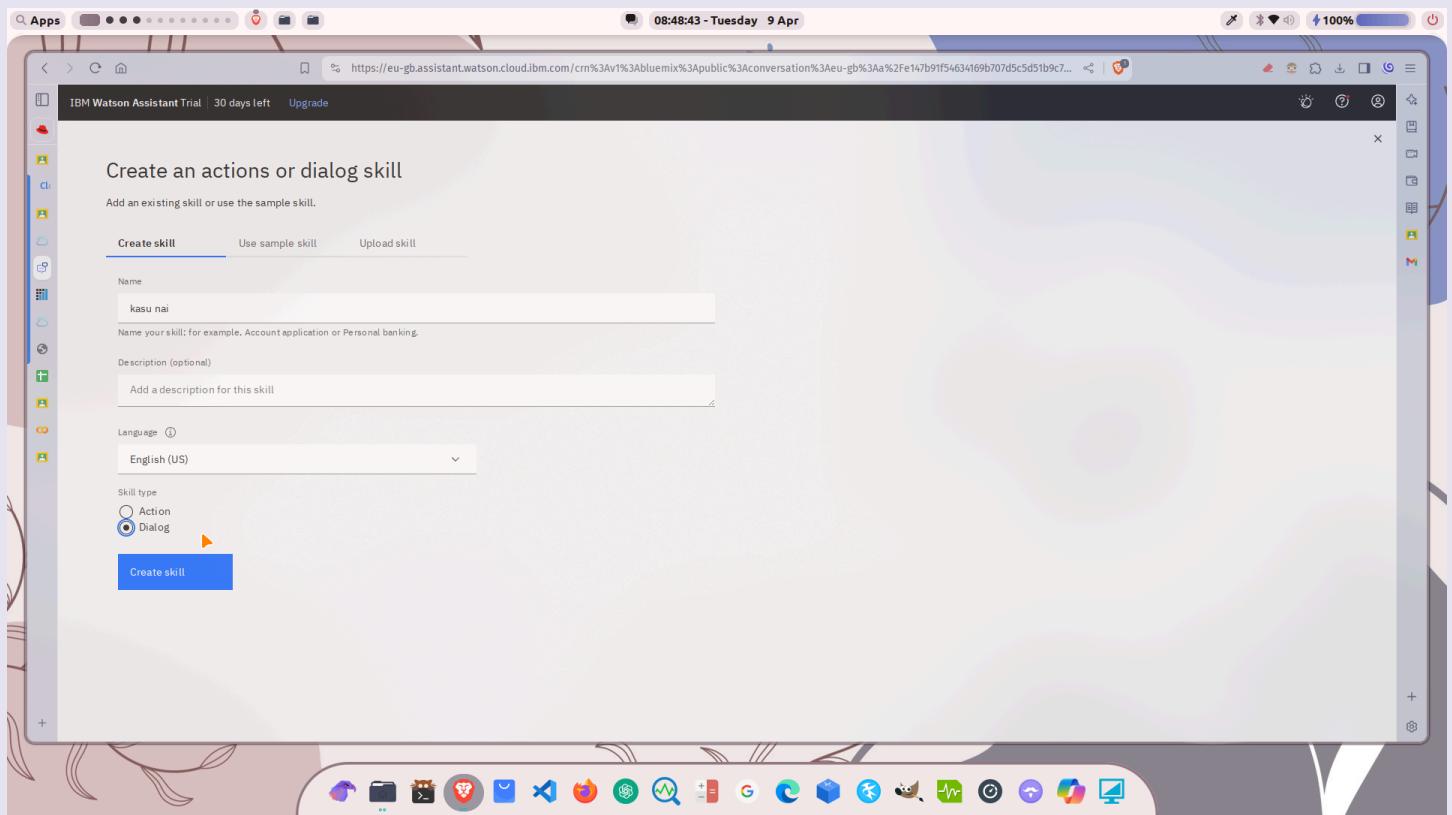
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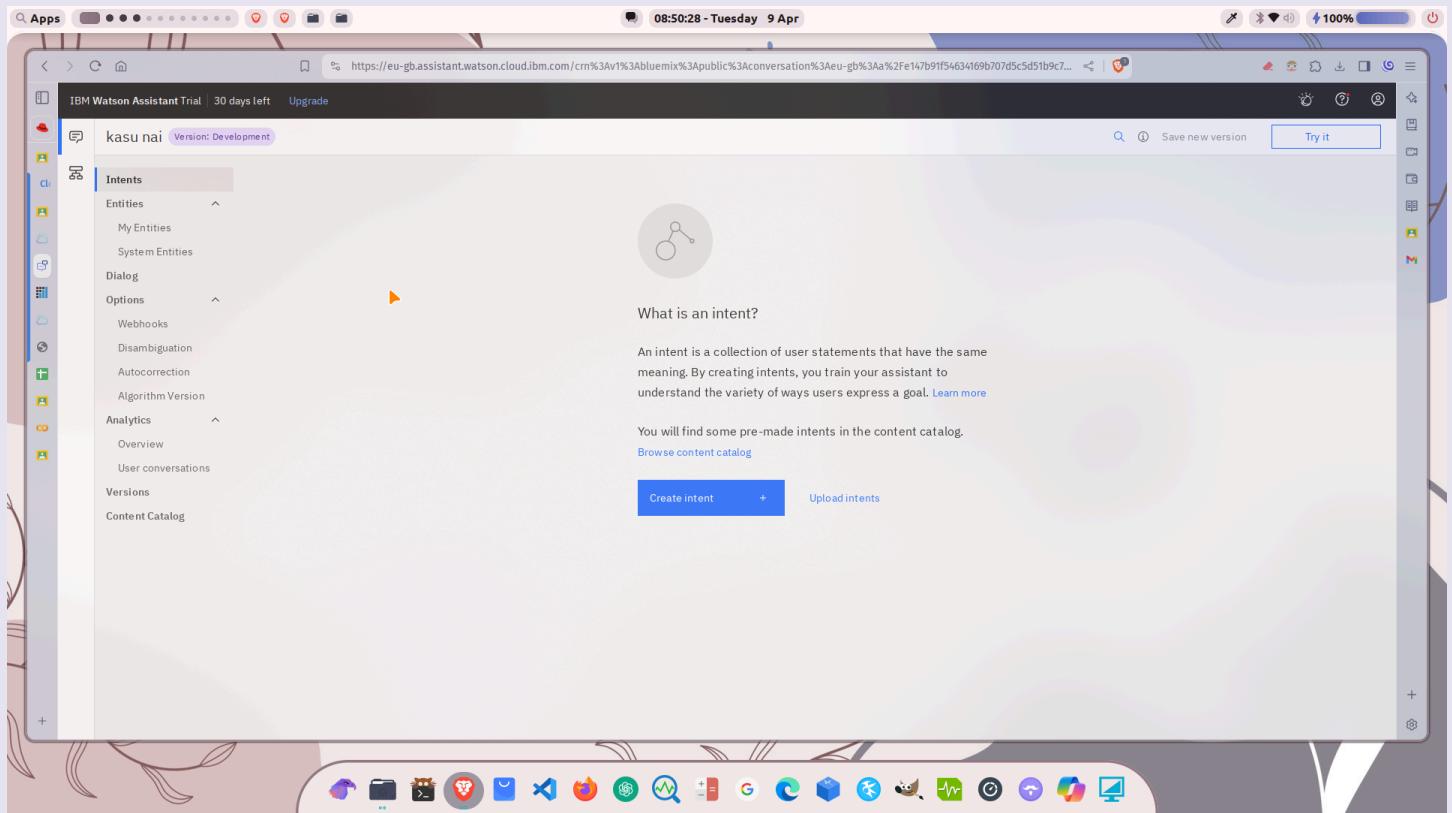
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8. Create skill and assign name and skill type (if shown) as dialog



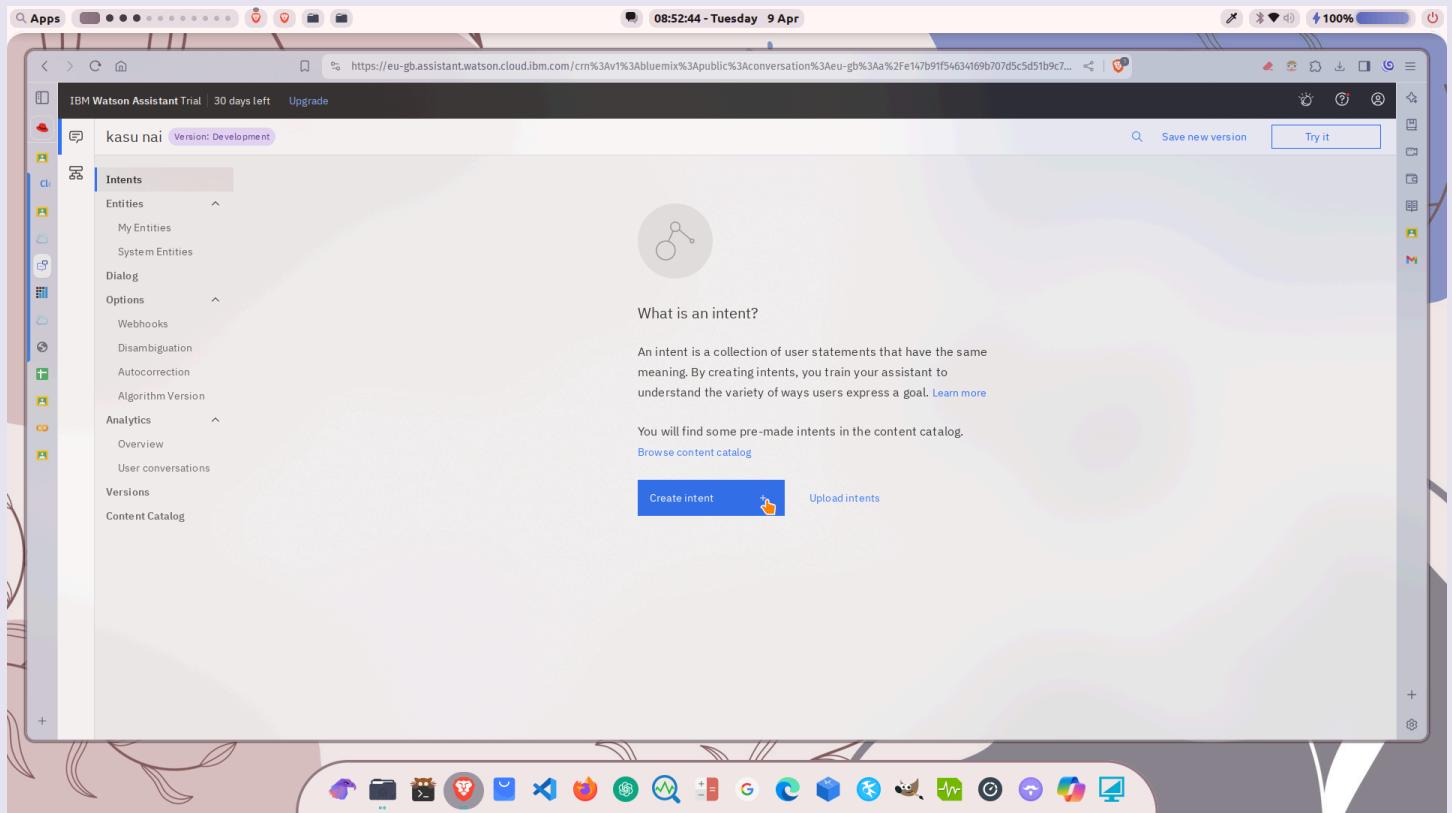
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9. Click on the created dialog



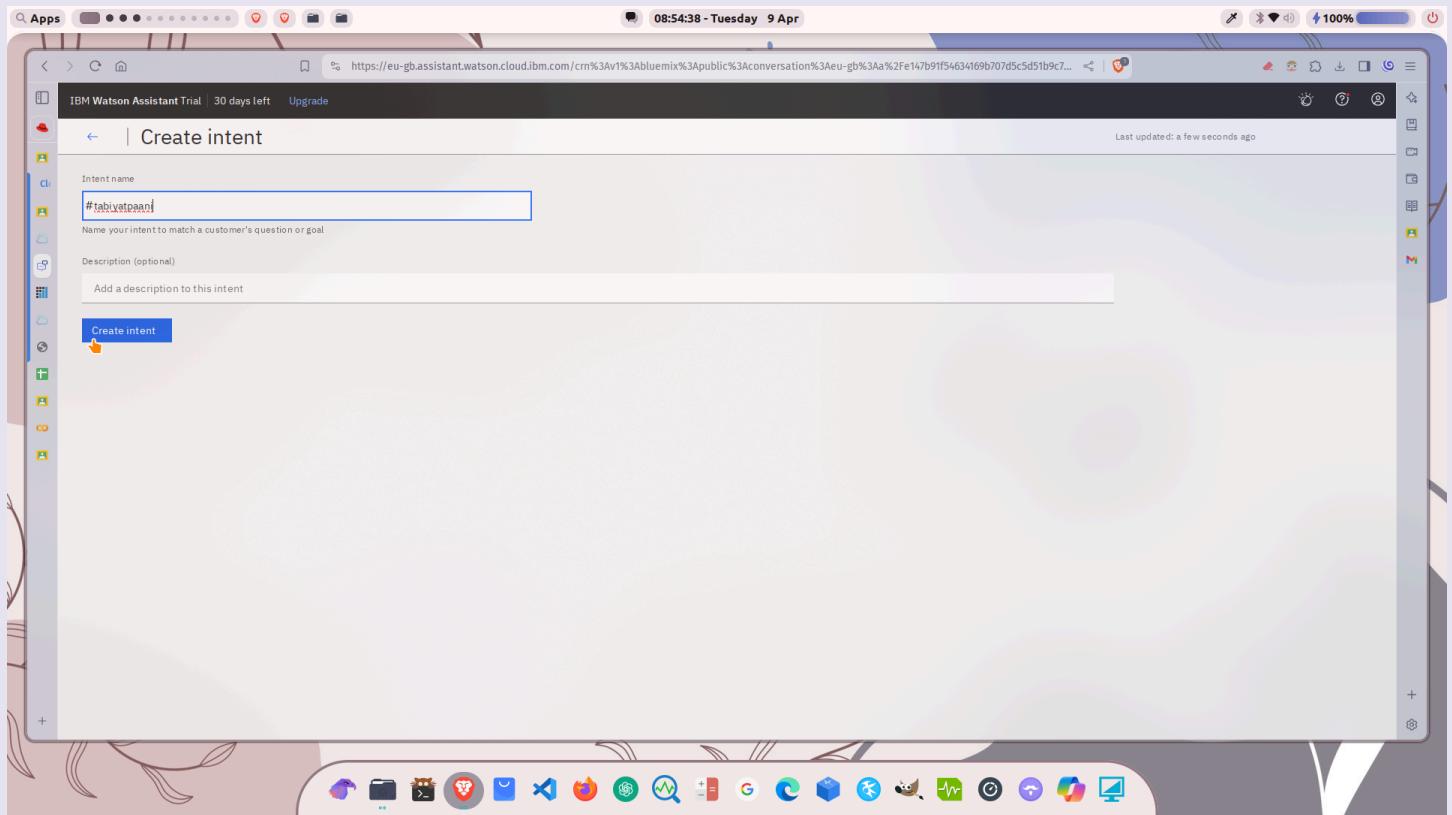
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10. Create intent



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11. Add the intent name and click create



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12. Add examples for intent

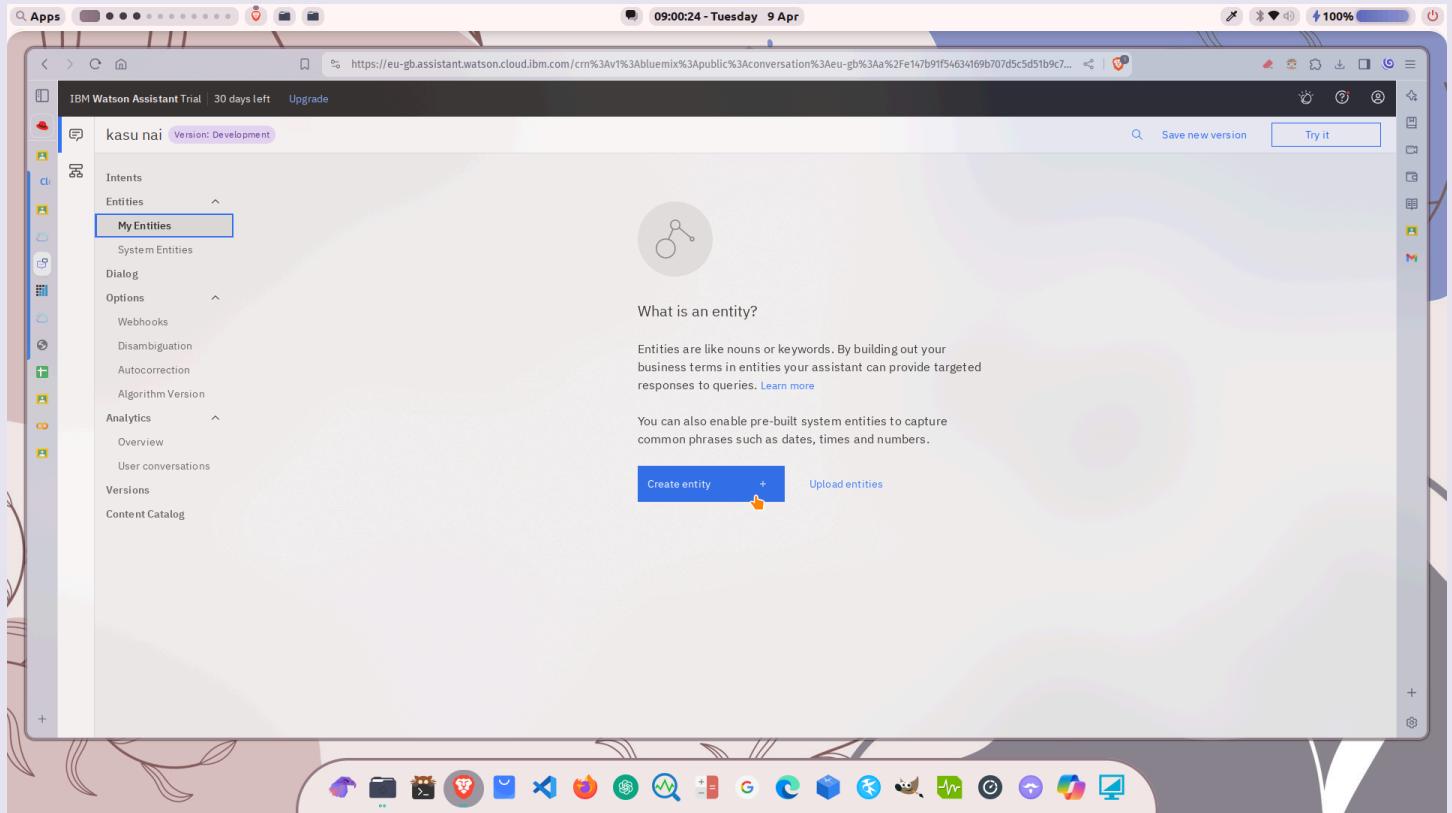
The screenshot shows the IBM Watson Assistant Trial interface. The URL in the address bar is <https://eu-gb.assistant.watson.cloud.ibm.com/crn%3Av1%3Abluemix%3Apublic%3Aconversation%3Aeu-gb%3Aa%2Fe147b91f54634169b707d5c5d51b9c7...>. The page title is "IBM Watson Assistant Trial | 30 days left". The main content area displays a list of user examples for the intent "#tabiyatpaani". The examples are:

User Example	Time Ago
cham sa	3 minutes ago
chevu chala sa badhu	2 minutes ago
good morning	3 minutes ago
hare krishna	3 minutes ago
hello	3 minutes ago
hi	2 minutes ago
how are you	2 minutes ago
tabiyat paani barabar	2 minutes ago

Annotations at the bottom of the screenshot indicate the presence of various icons and features, likely from a Mac OS X desktop environment.

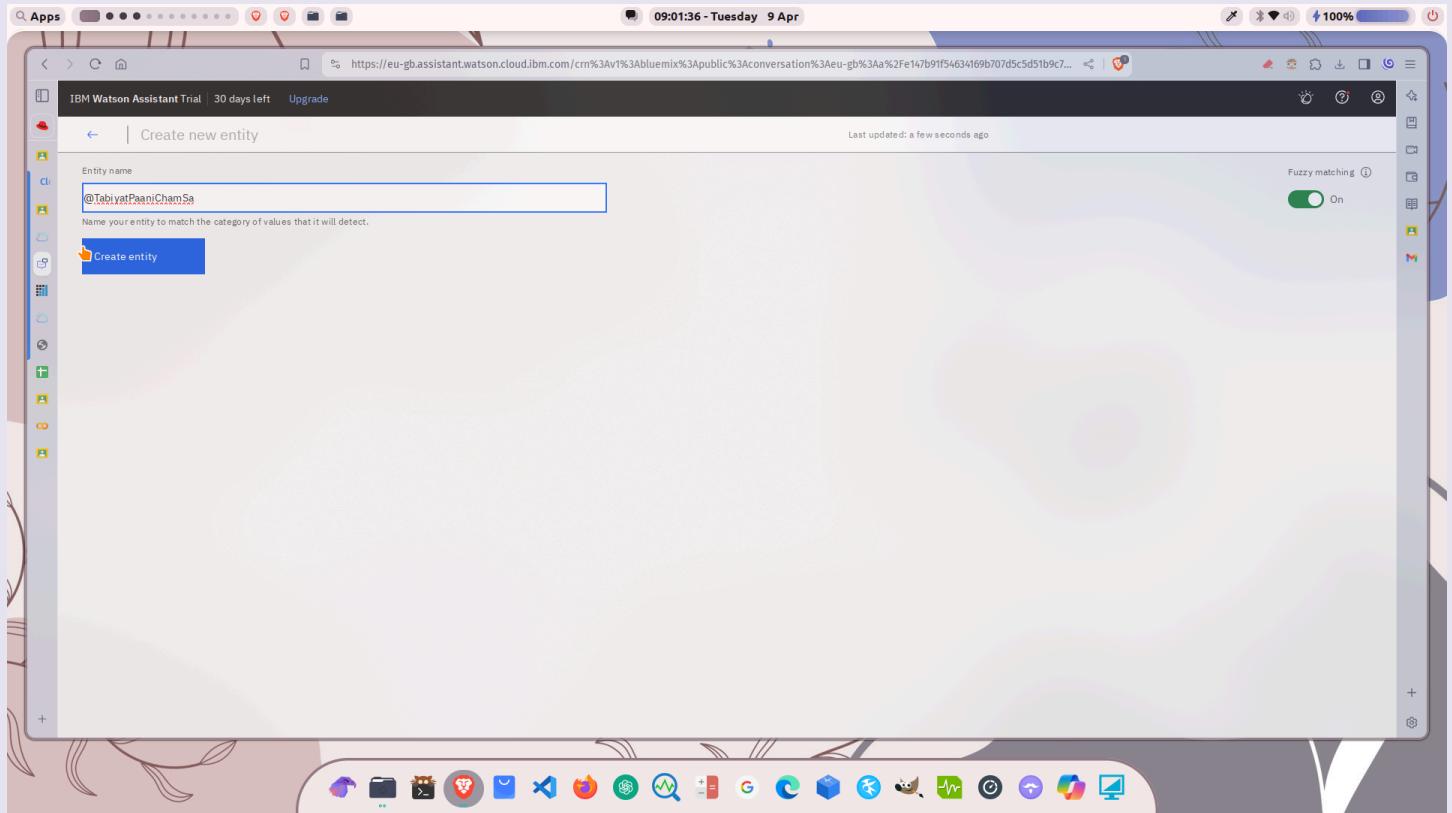
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13. Create entity



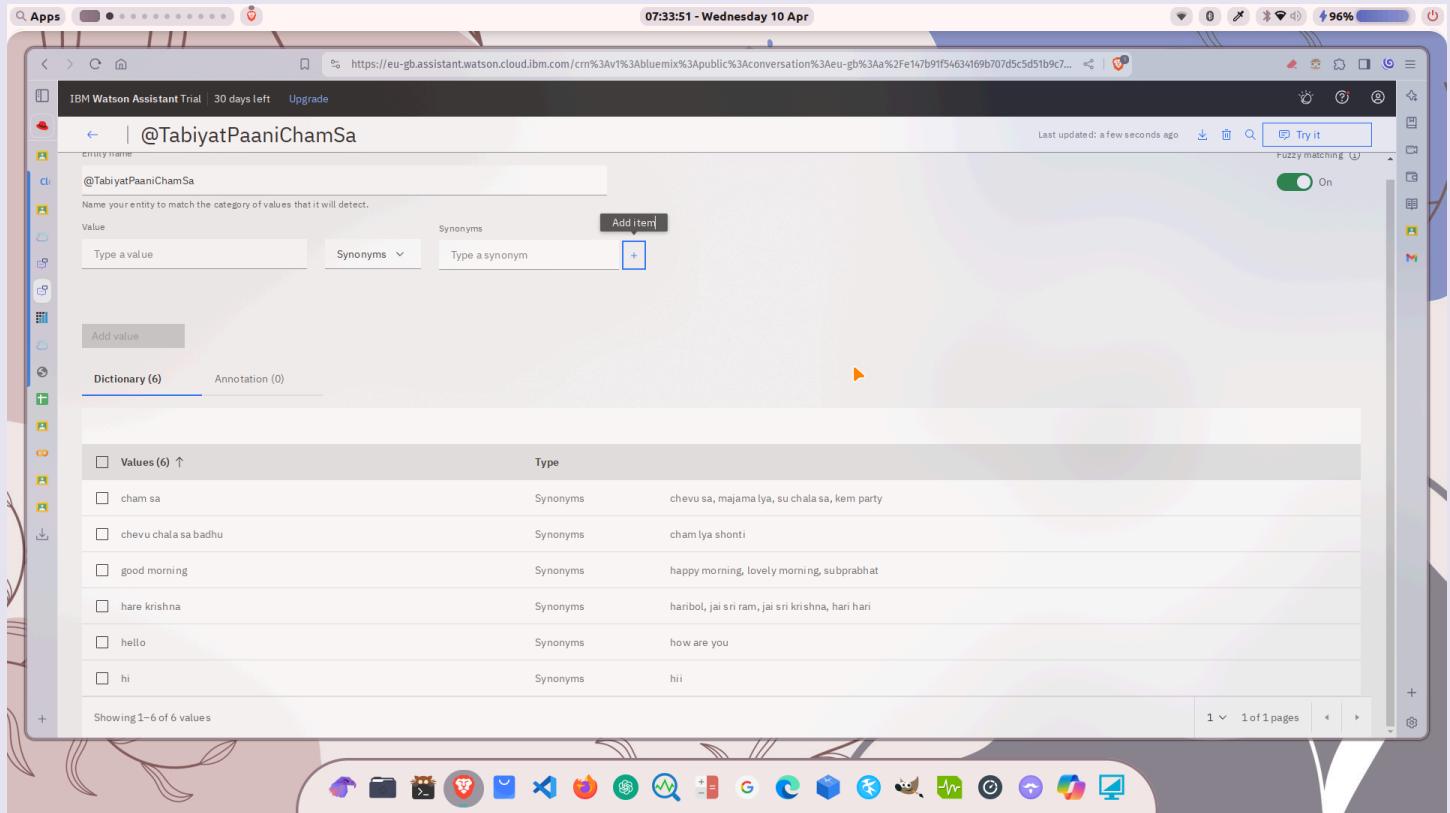
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14. Assign name and create entity for it



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15. Create one or more entities for each indent



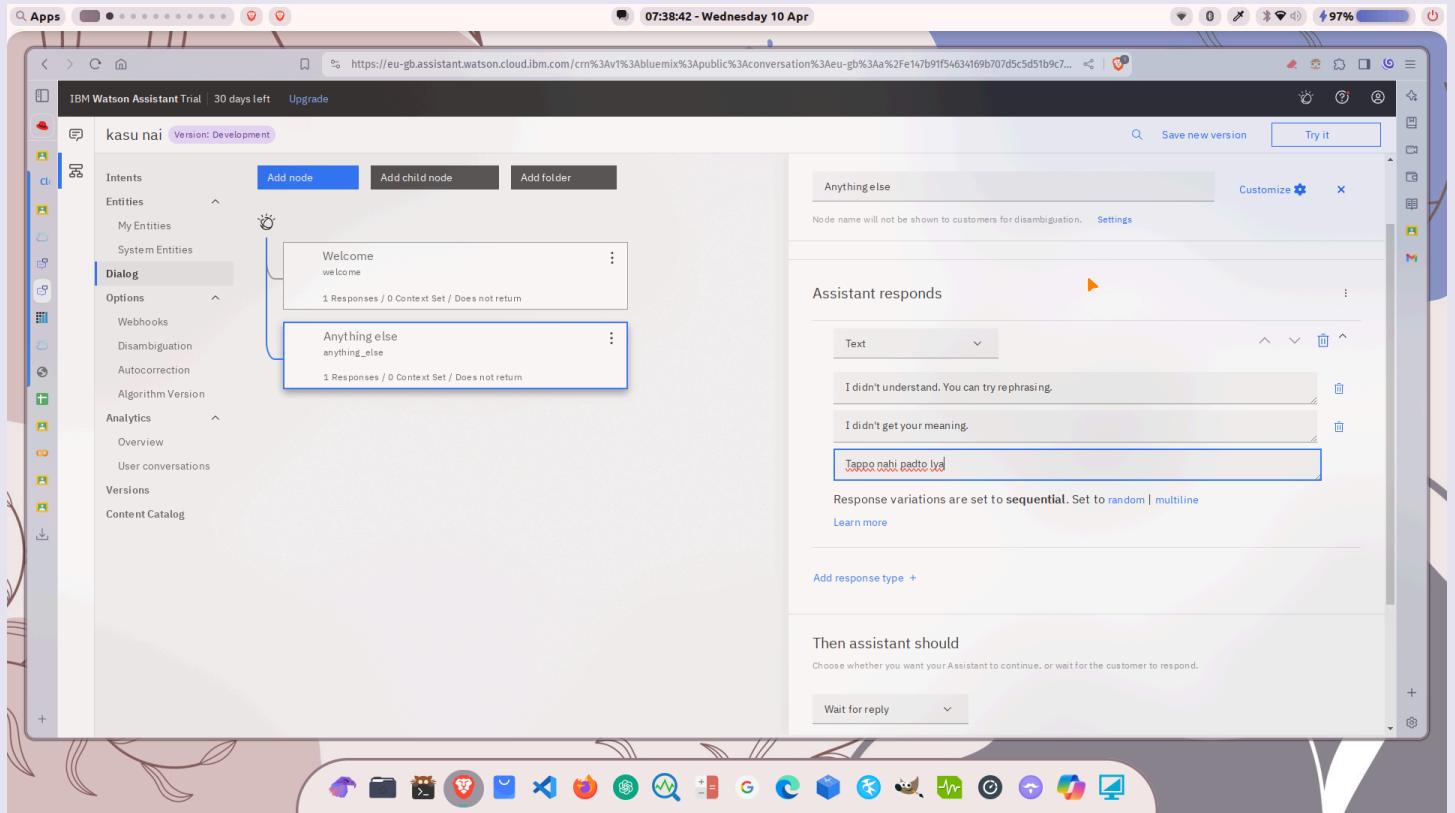
The screenshot shows the IBM Watson Assistant Trial interface. The entity name is '@TabiyatPaaniChamSa'. The 'Dictionary (6)' tab is selected, showing the following values:

Value	Type	Synonyms
cham sa	Synonyms	chevu sa, majama lya, su chala sa, kem party
chevu chala sa badhu	Synonyms	cham lya shonti
good morning	Synonyms	happy morning, lovely morning, subprabhat
hare krishna	Synonyms	haribol, jai sri ram, jai sri krishna, hari hari
hello	Synonyms	how are you
hi	Synonyms	hi

Annotations (0) tab is also present. The interface includes a toolbar at the bottom with various icons.

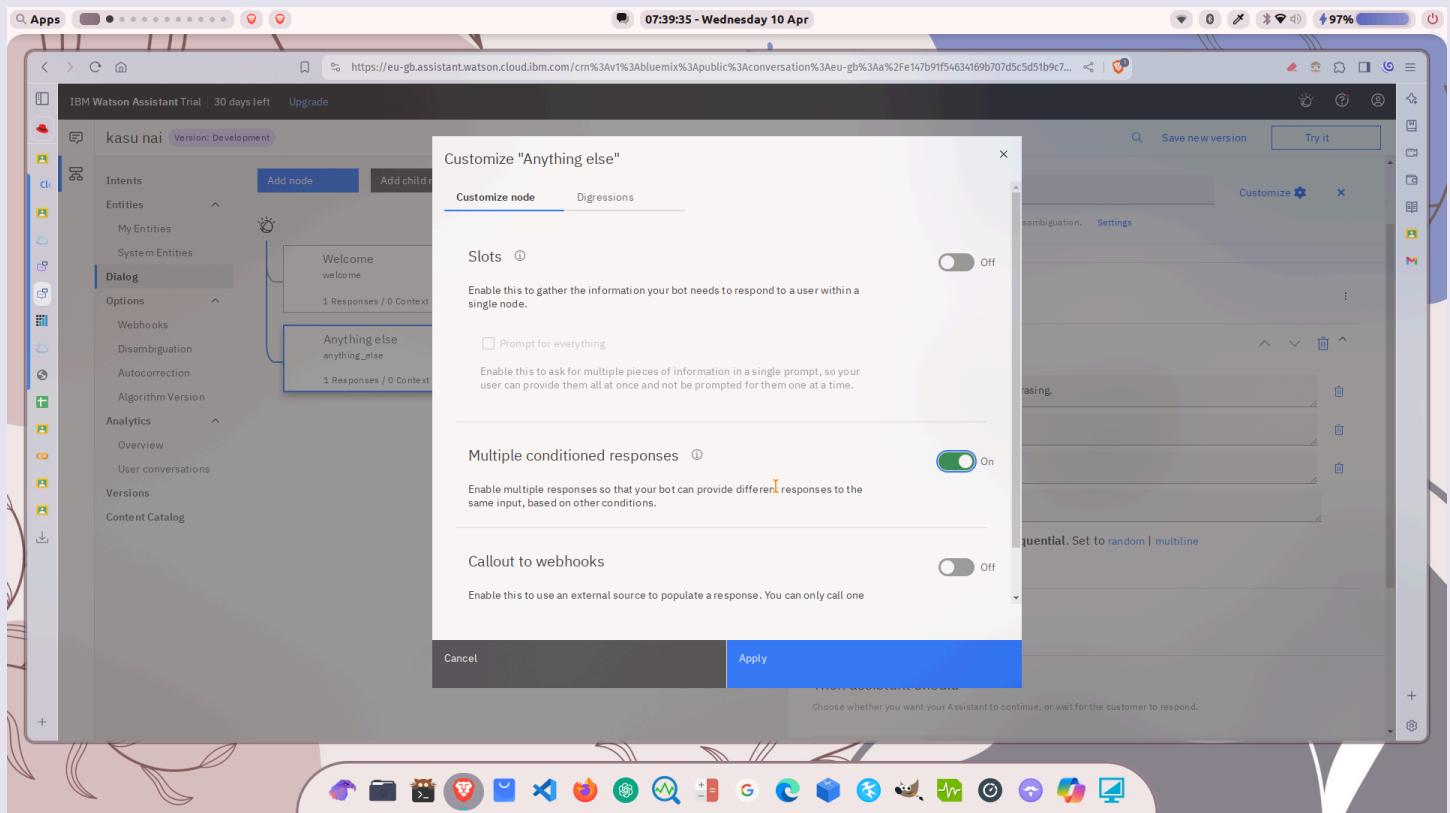
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16. In Dialog tab, click Anything_else and add responses if required



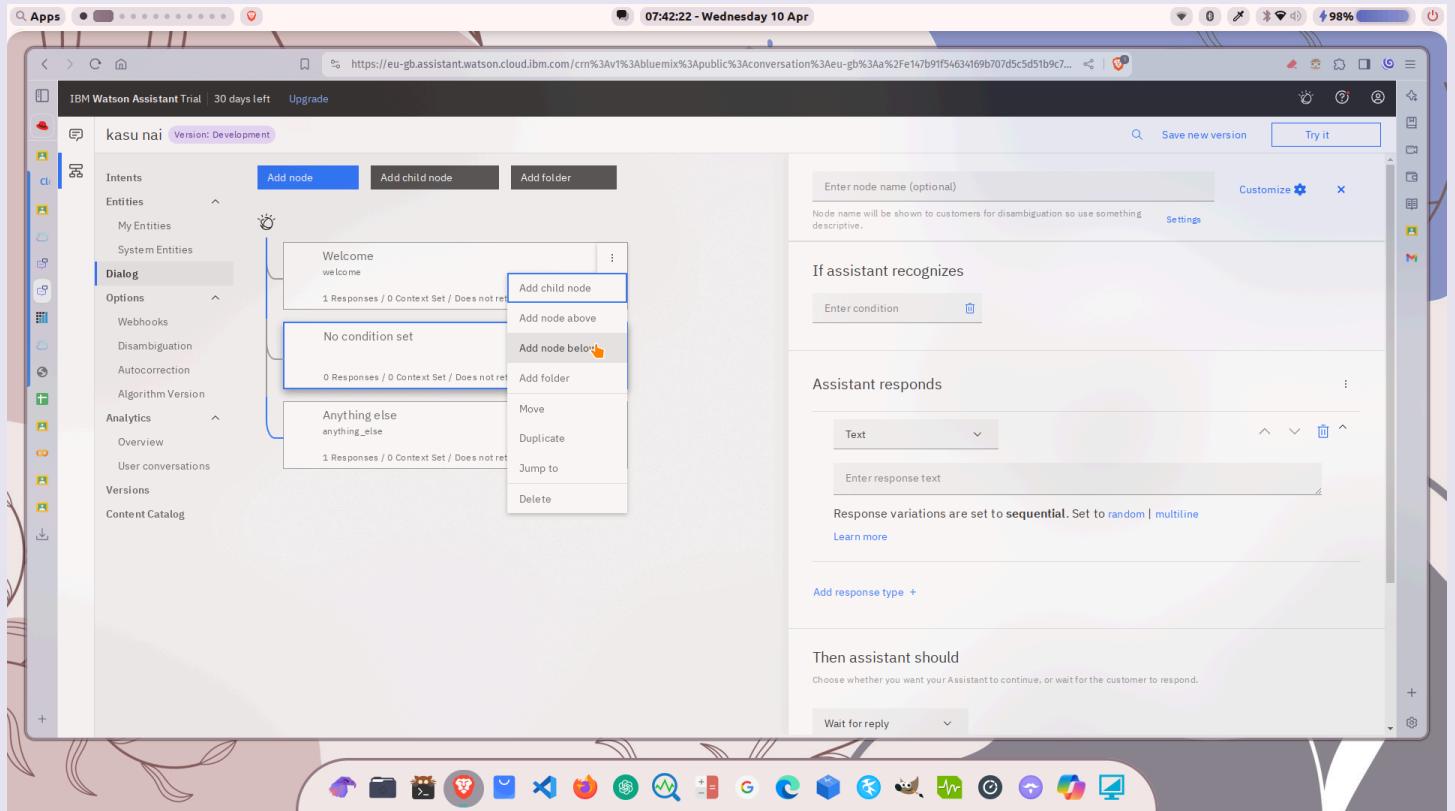
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17. In top-right corner, click Customize and turn on Multiple Conditioned responses option if required, (here not required)



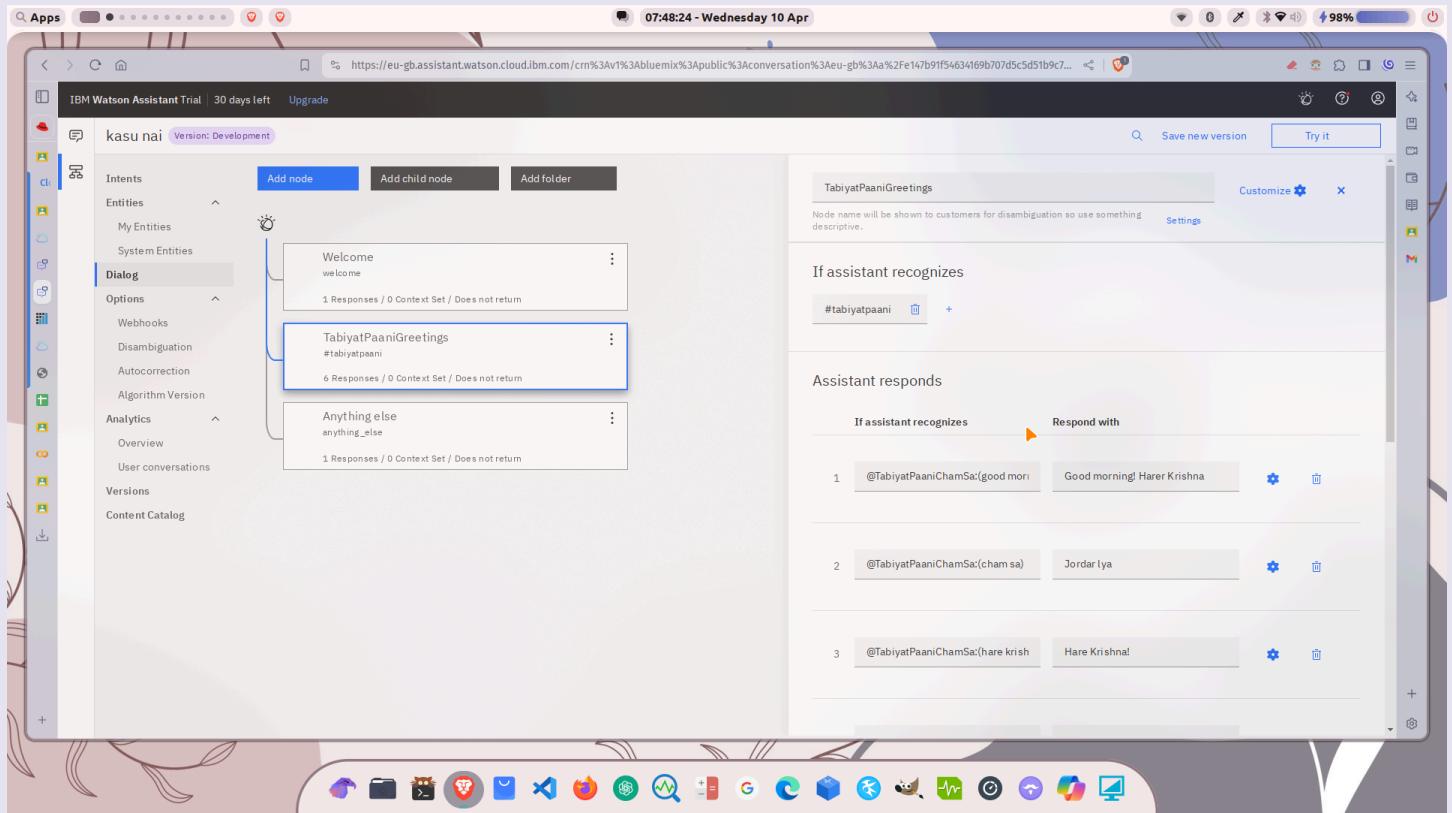
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18. Add node below welcome



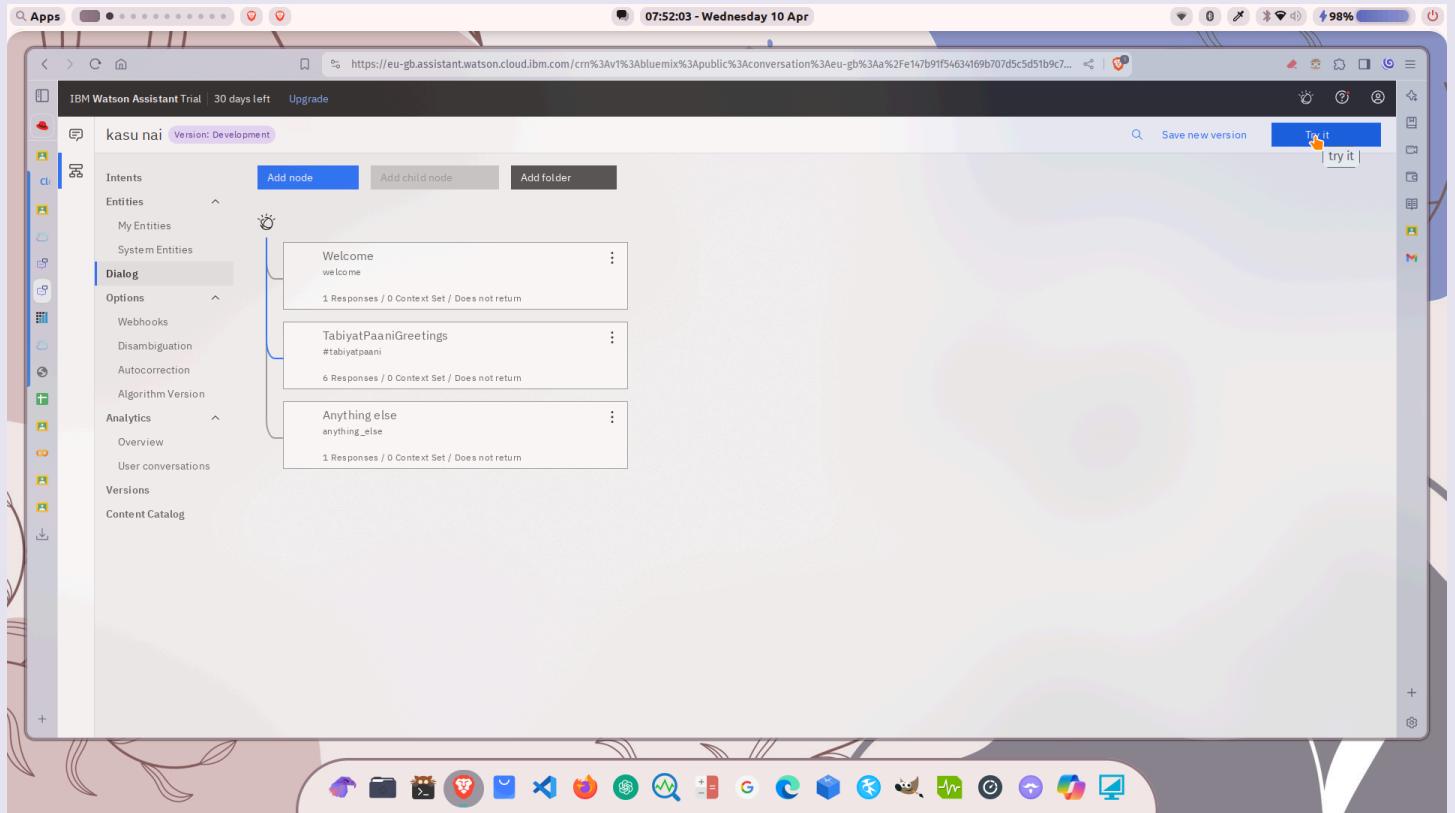
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19. Assign name to new node and add intents in first option, and then turn Multiple conditioned option ON, then add entities in 'is' condition with each entity as parameter and type its response



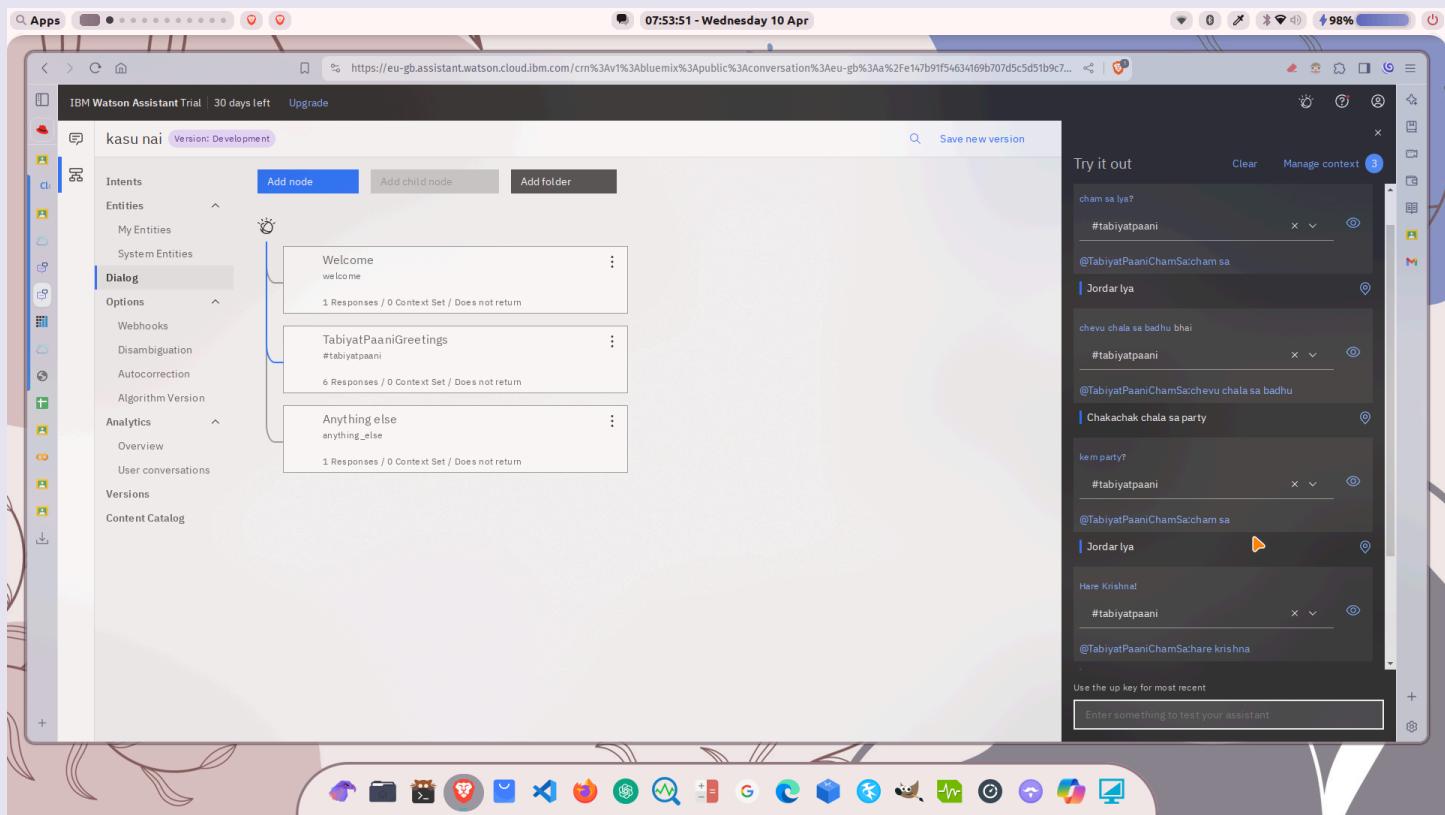
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20. Click Try it option to check the service



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21. Check the responses on sentences including entities keywords or sentences



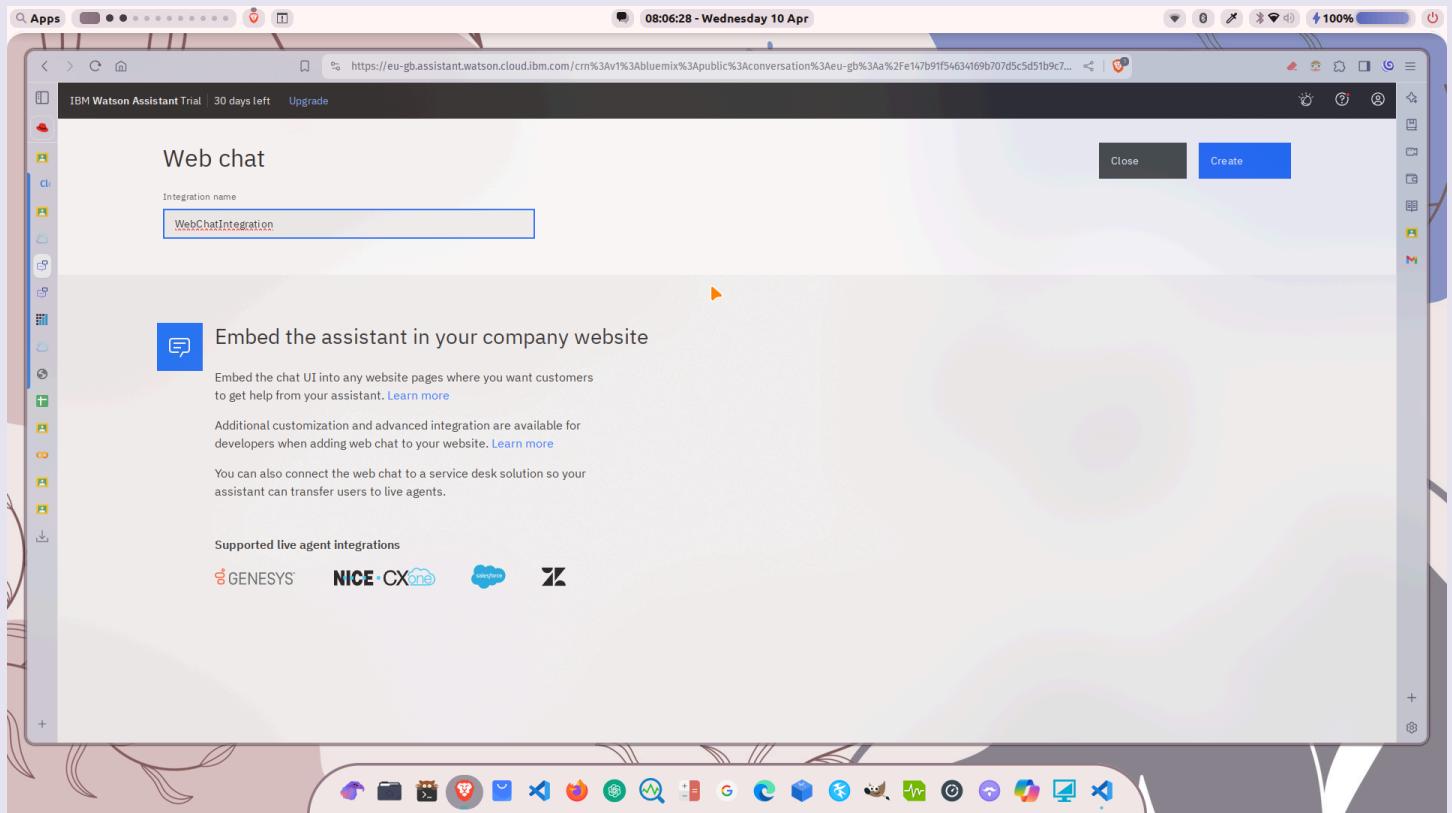
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22. In Assistant created, click integrate web chat

The screenshot shows the IBM Watson Assistant Trial interface. At the top, it displays the URL <https://eu-gb.assistant.watson.cloud.ibm.com/crn%3Av1%3Abluemix%3Apublic%3Aconversation%3Aeu-gb%3Aa%2Fe17b91f54634169b707d5c5d51b9c7...> and the time 08:04:36 - Wednesday 10 Apr. On the left, there's a sidebar with various icons. The main area shows a list of assistants, with "Yashlano Botyo1" selected. Below it, there's a "Dialog" section for "kasu nai" with details like LANGUAGE: English (US), TRAINED DATA: 1 Intents | 1 Entities | 10 Dialog nodes, VERSION: Development, DESCRIPTION: in-progress version, and VERSION CREATED: Apr 9, 2024 8:49 AM. A "LINKED ASSISTANTS (1): Yashlano Botyo1" section follows. To the right, there's a "Steps to go live" sidebar with several options, and at the bottom, there's an "Integrations" section with "Integrate web chat" and "Integrate phone" buttons.

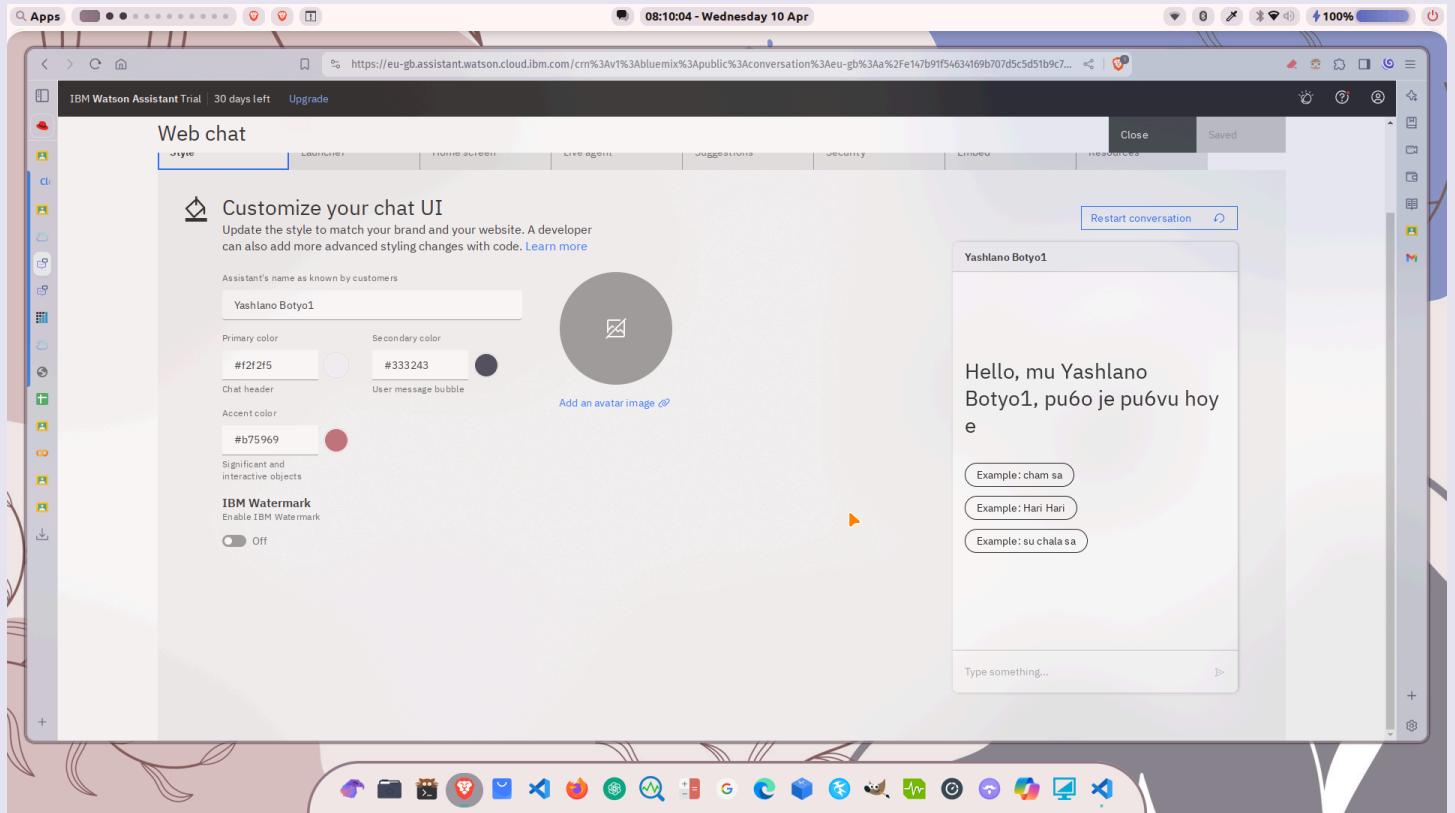
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23. Assign name and create



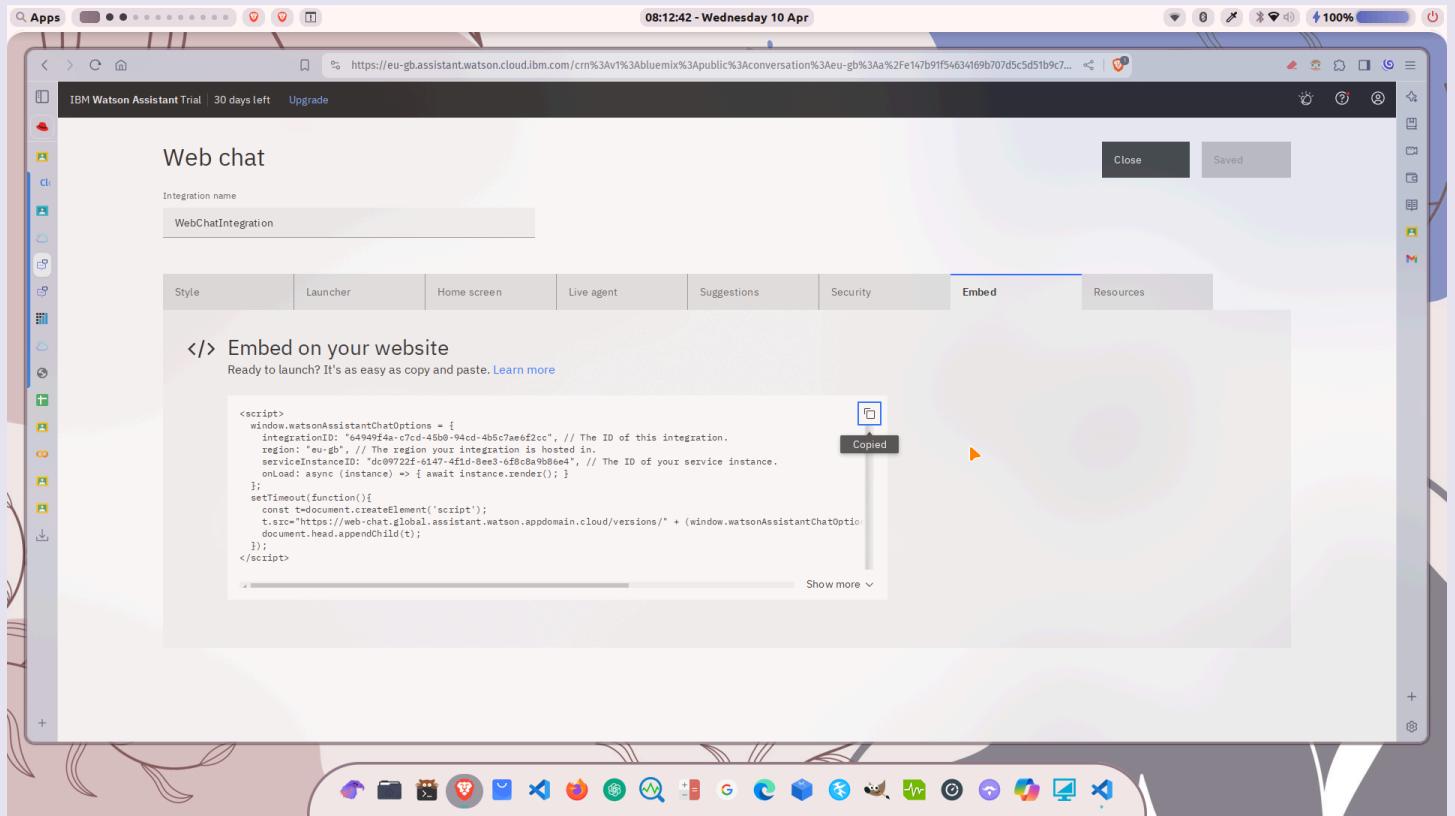
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24. Modify the default UI and its elements if required and proceed further



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25. In Embed tab, copy the script and paste it on any HTML file to integrate web chat with the same



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26. Paste in the HTML script

The screenshot shows a Mac desktop environment. In the foreground, a terminal window is open with the command `yash .../Practical_3 > p main ! @ v18.18.2 08:48 node app.js`. The output shows "Server is being started on 3000". Above the terminal is a code editor window titled "app.js" with the following content:

```
public > index.html > html
2   <html lang="en">
49  <body>
57    <script>
58      function turnOff() {
59        ...
60      }
61      window.watsonAssistantChatOptions = {
62        integrationID: "64949f4a-c7cd-45b0-94cd-4b5c7ae6f2cc", // The ID of this integration.
63        region: "eu-gb", // The region your integration is hosted in.
64        serviceInstanceId: "dc09722f-6147-4f1d-8ee3-6f8c8a9b86e4" // The ID of your service instance.
65        onLoad: async (instance) => { await instance.render(); }
66      }; <- #67-72 window.watsonAssistantChatOptions =
67      setTimeout(function () {
68        const t = document.createElement('script');
69        t.src = "https://web-chat.global.assistant.watson.appdomain.cloud/versions/" + (window.watsonAssistantChatOptions.clientVersion || 'latest') + "/WatsonAssistantChatEnt
70        document.head.appendChild(t);
71      }); <- #73-77 setTimeout
72    </script>
73  </body>
74</html>
```

The code editor interface includes tabs for "index.html" and "app.js", a sidebar with icons for file operations, and a status bar at the bottom indicating "You, 29 minutes ago Ln 81, Col 8 Spaces:2 UTF-8 LF HTML ⚡ Prettier".

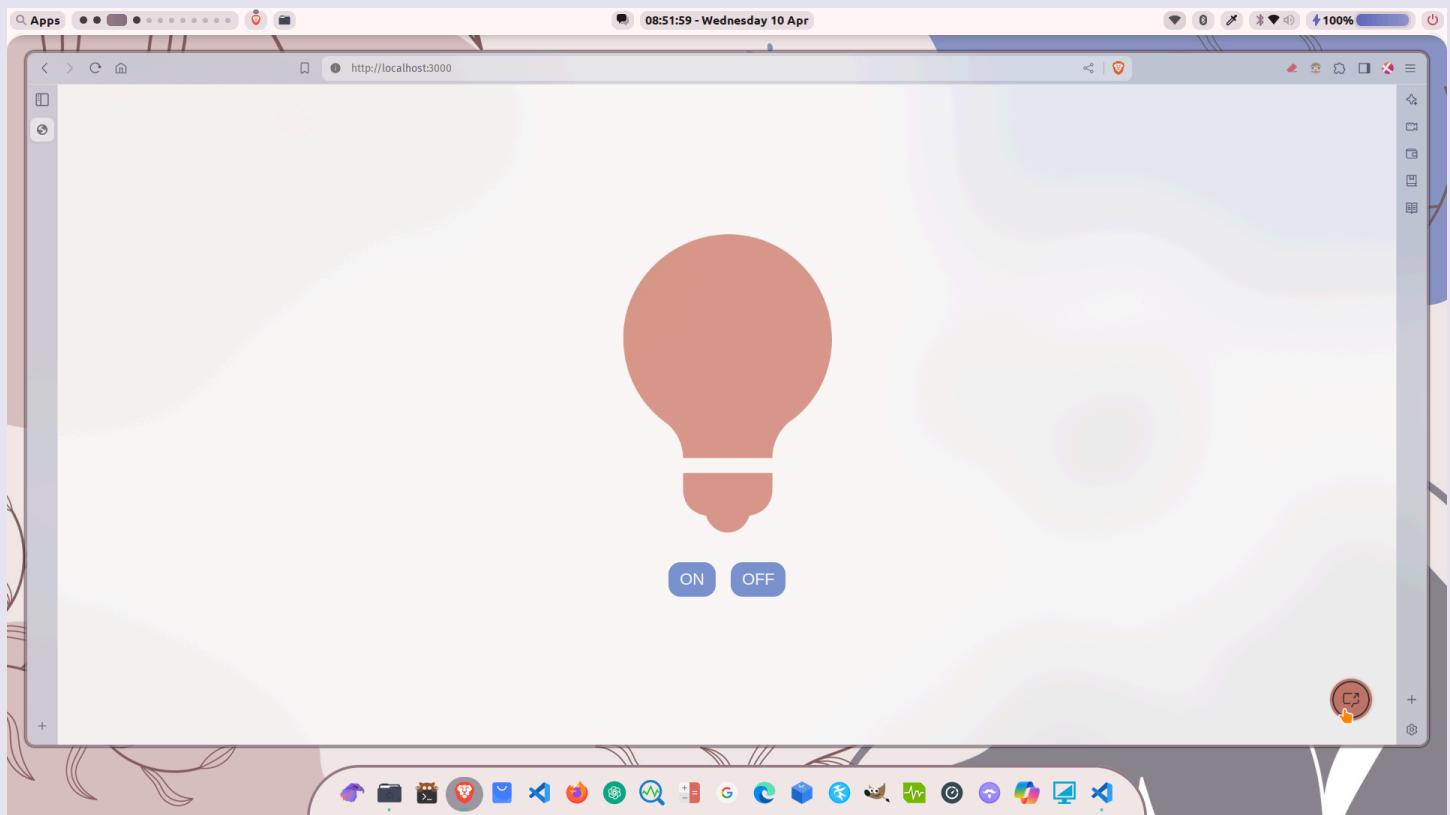
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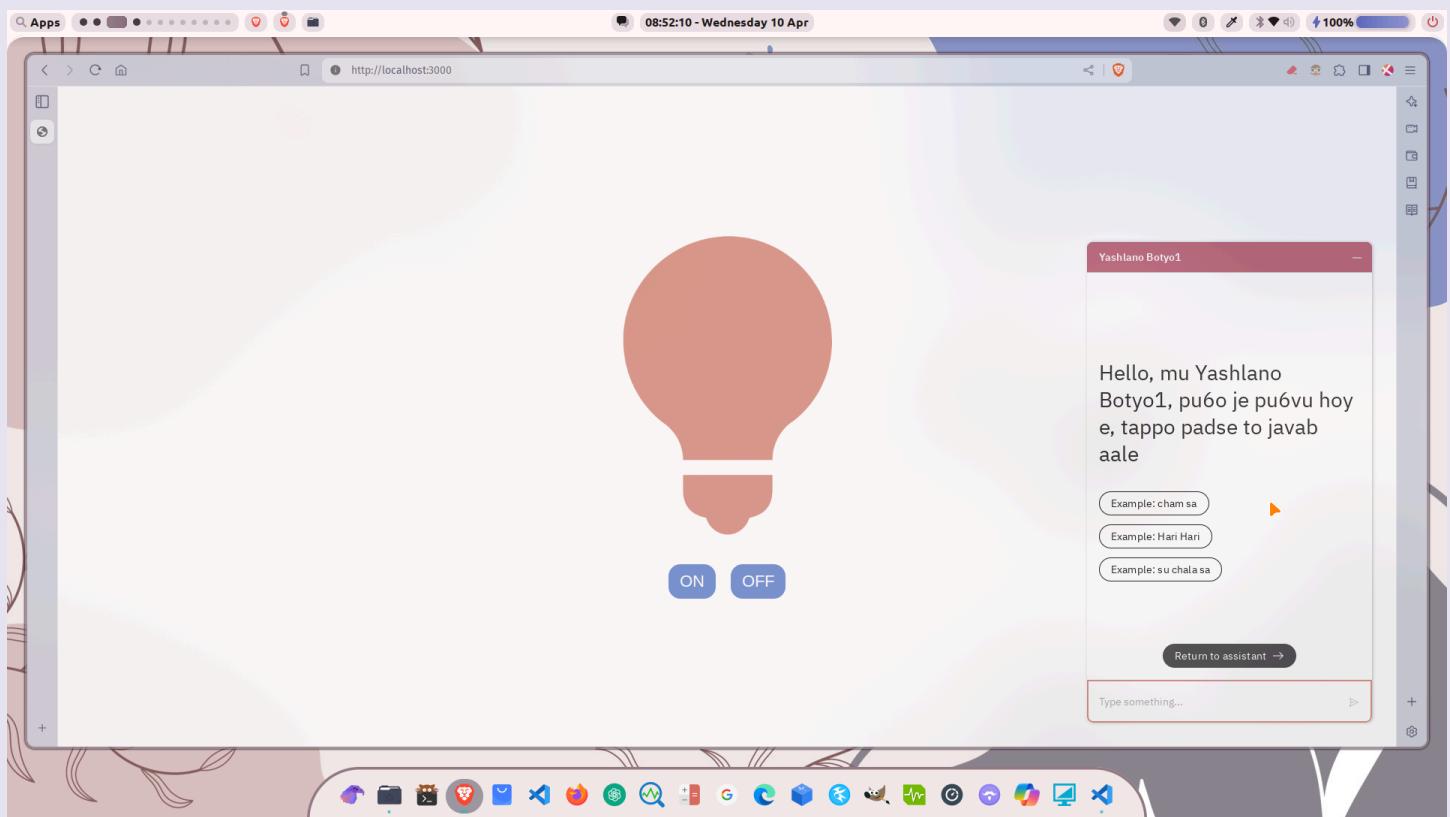
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27. Run the web app and the assistant will be visible at bottom-right corner



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28. Click the icon, it will open the assistant



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29. Try asking few questions and the response will be returned

