

Bonus Task 4

For the Bonus Challenge, I successfully built a Conversational Agent using Google Cloud AI Applications. The objective of this task was to create an intelligent agent that could answer citizen questions about Aurora Bay using a connected Vertex AI Data Store while preventing hallucinations and ensuring responses were grounded in official FAQ content.

I began by navigating to **AI Applications** in the Google Cloud Console and selecting **Create App** → **Conversational Agent**. I configured the application with the name **Aurora Bay Agent**, selected the region **us-central1**, and set the language to English. This created the foundation for the conversational interface.

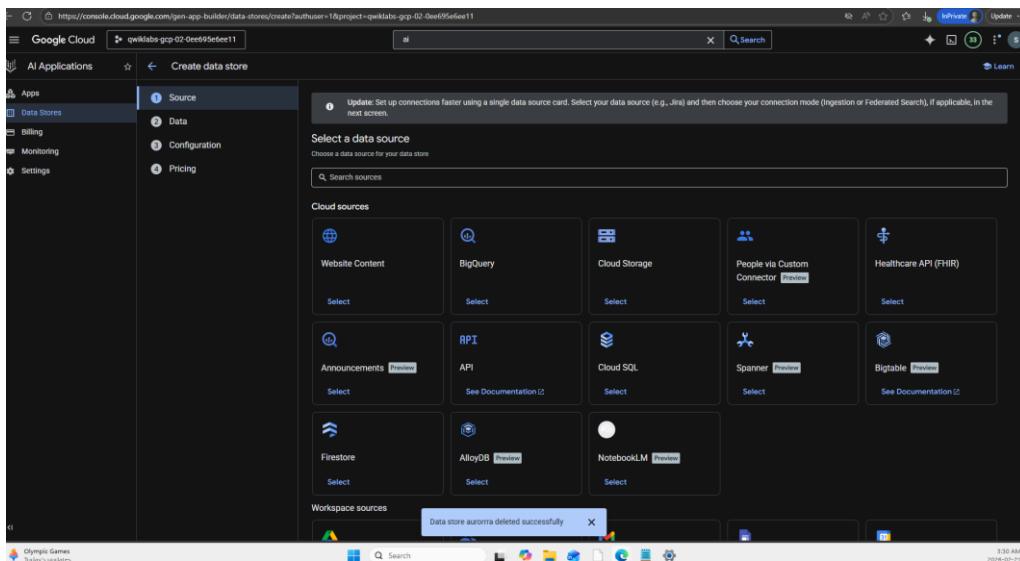
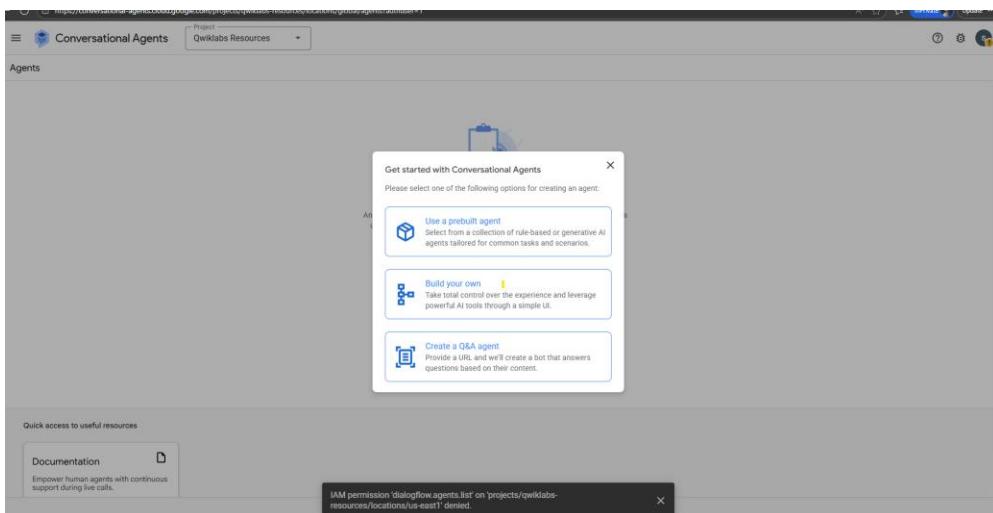
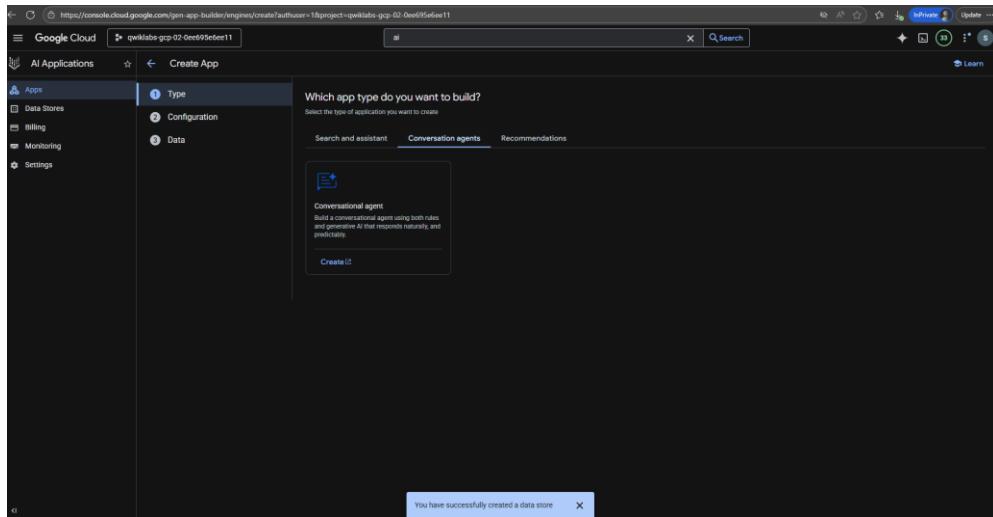
Next, I created a **Vertex AI Data Store** using Cloud Storage as the source. I connected the data store to the required bucket:

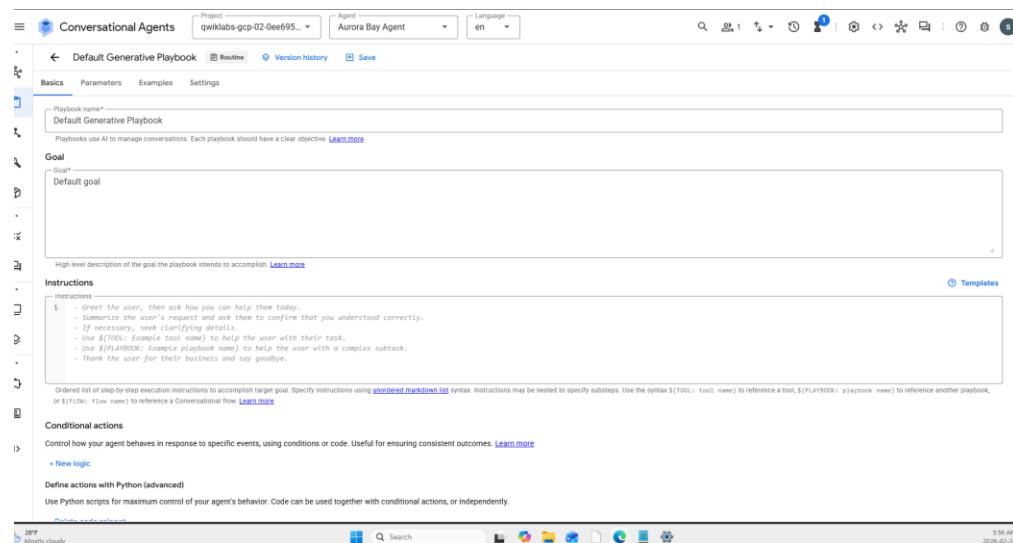
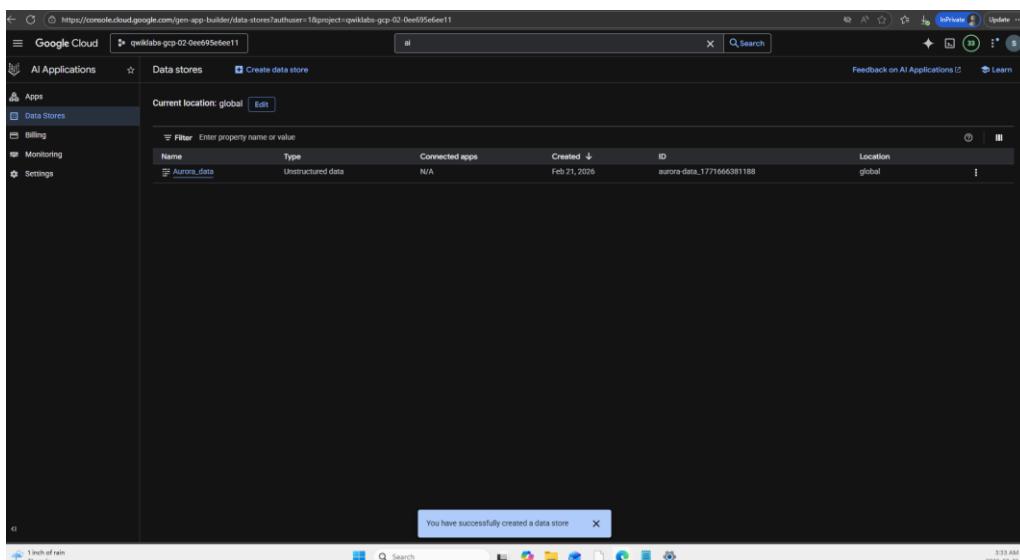
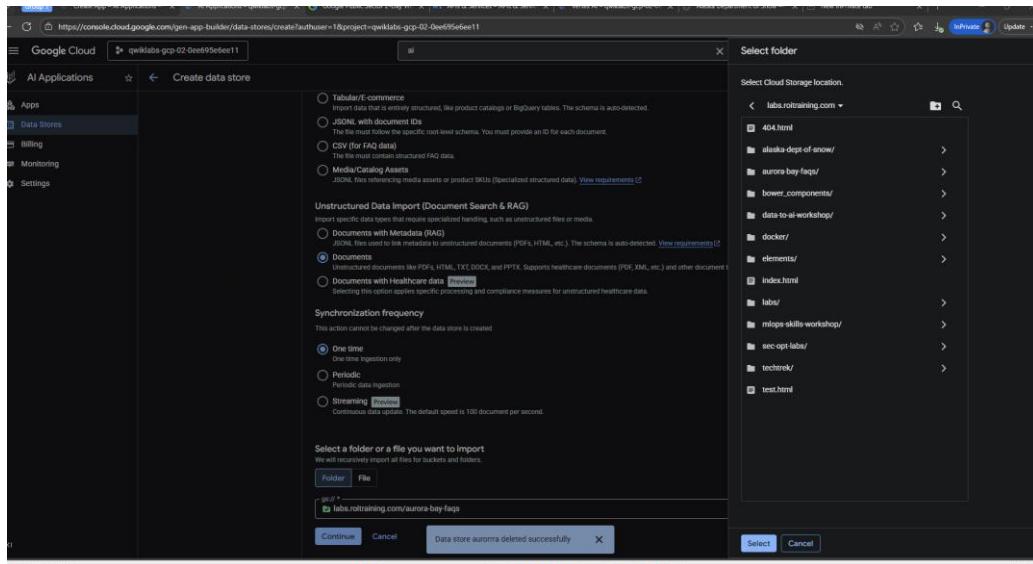
```
gs://labs.roitraining.com/aurora-bay-faqs
```

I ensured that the data store was created in the same region (us-central1) as the agent to avoid compatibility issues. After initiating the data store creation process, I waited for the indexing process to complete. Once the status showed “Ready,” I verified that the documents were successfully ingested and searchable. I then connected this data store to the Aurora Bay Agent under the agent’s settings. This enabled Retrieval-Augmented Generation (RAG), allowing the agent to generate responses based strictly on the indexed FAQ documents.

After connecting the data store, I configured the **Default Generative Playbook**. I updated the Goal section to clearly define the agent’s purpose: to provide accurate and helpful answers to citizen questions using only the connected Aurora Bay FAQ data store. I then replaced the default instructions with structured guidance to enforce grounded responses. The instructions required the agent to greet users politely, identify their question, retrieve relevant information from the data store, and answer using only that information. I also explicitly instructed the agent not to guess or generate unsupported content. If the requested information was not available in the FAQ documents, the agent was required to respond with: “I don’t have enough information in the Aurora Bay FAQs to answer that.” Additionally, I instructed the agent to keep responses concise and professional and provide next steps when appropriate.

To validate the configuration, I tested the agent with several questions. For example, when I asked, “Where is Aurora Bay Town Hall located?” the agent correctly retrieved and presented information from the data store. When I asked an out-of-scope question such as, “What is the mayor’s favorite movie?” the agent correctly responded that it did not have enough information in the Aurora Bay FAQs. This confirmed that the data store connection was functioning correctly and that hallucination prevention was successfully implemented.





Conversational Agents Project: `qwiklabs-gcp-02-0ee695...` Agent: `Aurora Bay Agent` Language: `en`

Default Generative Playbook Routine Version history Save

Basics Parameters Examples Settings

Playbook name: Default Generative Playbook

Playbooks use AI to manage conversations. Each playbook should have a clear objective. [Learn more](#)

Goal: Goal

Provide accurate and helpful answers to citizen questions about Aurora Bay using only the connected Aurora Bay FAQ data store.

High level description of the goal the playbook intends to accomplish. [Learn more](#)

Instructions:

- Greet the user politely and ask how you can help.
- Identify the user's question about Aurora Bay services, policies, or information.
- Retrieve relevant information from the connected Aurora Bay FAQ data store.
- Use ONLY information from the data store to answer.
- If there is no information in the data store, respond with:
 - "I don't have enough information in the Aurora Bay FAQs to answer that."
 - "I only have enough information in the Aurora Bay FAQs to answer that."
- Do not guess or create information.
- Keep answers clear and concise (2-8 sentences).
- When appropriate, include a next step (for example, where to go or who to contact).
- Maintain a professional and helpful tone.

Ordered list of step-by-step execution instructions to accomplish target goal. Specify instructions using `unordered_markdown_list` syntax. Instructions may be nested to specify substeps. Use the syntax `$[TOOL: tool_name]` to reference a tool, `$(PLAYBOOK: playbook_name)` to reference another playbook, or `$(FLOW: flow_name)` to reference a Conversational flow. [Learn more](#)

Estimated token count: 168

Conditional actions:

Control how your agent behaves in response to specific events, using conditions or code. Useful for ensuring consistent outcomes. [Learn more](#)

+ New logic

Enter text (@ for other options)

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Define actions with Python (advanced)

Use Python scripts for maximum control of your agent's behavior. Code can be used together with conditional actions, or independently.

+ Add code snippet

Available tools:

This playbook can use selected tools to generate responses. You can also call other tools, including SP, directly in steps. Create a data store tool to allow this playbook to answer questions using data store content.

+ Data store Manage all tools

Data_1 Data store

code-interpreter Extension

Enter text (@ for other options)

Conversational Agents Project: `qwiklabs-gcp-02-0ee695...` Agent: `Aurora Bay Agent` Language: `en`

Settings Save Cancel

General Generative AI Deterministic Flows Connectivity Speech and IVR UI Settings Security

Allow partial match Require full match

Enter banned phrase [Add](#)

Search Search banned phrase

Banned phrases

Safety filters

Configure sensitivity levels of safety filters with respect to different categories. Content is blocked based on the probability that it's harmful. [Learn more](#)

Block most

Dangerous content sensitivity level: Block most

Hate speech sensitivity level: Block most

Sexist violent content sensitivity level: Block most

Harassment sensitivity level: Block most

Prompt security

Only affects playbooks and data stores.

Enable prompt security checks Run additional checks against prompt injection attacks and other malicious queries

Prompt security settings

Prompt security settings: Default

Security prompt model: gemini-2.5-flush

Agent settings updated

2024-04-16 10:42 AM

Saved

Conversational Agents

Project: qwiklabs-gcp-02-0ee695... Agent: Aurora Bay Agent Language: en

Change history [preview] Refresh

Filter: Filter changelog

| Display name | Resource type | Action | Editor | Timestamp |
|-----------------------------|--------------------|--------|-------------------------------------|------------------------------|
| Default Start Flow | Flow | Update | student-02-50fb917870f@qwiklabs.net | February 21, 2026 at 4:10 AM |
| Default Start Flow | Flow | Update | student-02-50fb917870f@qwiklabs.net | February 21, 2026 at 4:10 AM |
| Default Start Flow | Flow | Update | student-02-50fb917870f@qwiklabs.net | February 21, 2026 at 4:08 AM |
| Default Start Flow | Flow | Update | student-02-50fb917870f@qwiklabs.net | February 21, 2026 at 4:08 AM |
| Aurora Bay Agent | generativeSettings | Update | student-02-50fb917870f@qwiklabs.net | February 21, 2026 at 4:04 AM |
| Aurora Bay Agent | Agent | Update | student-02-50fb917870f@qwiklabs.net | February 21, 2026 at 4:04 AM |
| Default Generative Playbook | playbooks | Update | student-02-50fb917870f@qwiklabs.net | February 21, 2026 at 3:57 AM |
| Default Generative Playbook | playbooks | Update | student-02-50fb917870f@qwiklabs.net | February 21, 2026 at 3:56 AM |
| Data_1 | tools | Create | student-02-50fb917870f@qwiklabs.net | February 21, 2026 at 3:52 AM |
| Aurora Bay Agent | generativeSettings | Update | student-02-50fb917870f@qwiklabs.net | February 21, 2026 at 3:41 AM |

Items per page: 10 1 - 10 of 13 < >

Preview: Default Generative Playbook

Invocations + Save as example

Default Generative Playbook Routine Playbook

Hi

Hello! How can I assist you with Aurora Bay today?

Enter text (@ for other options) ↻ ➡