

Off-the-Grid Travel Planning Chatbot

Demo video: [Link](#)

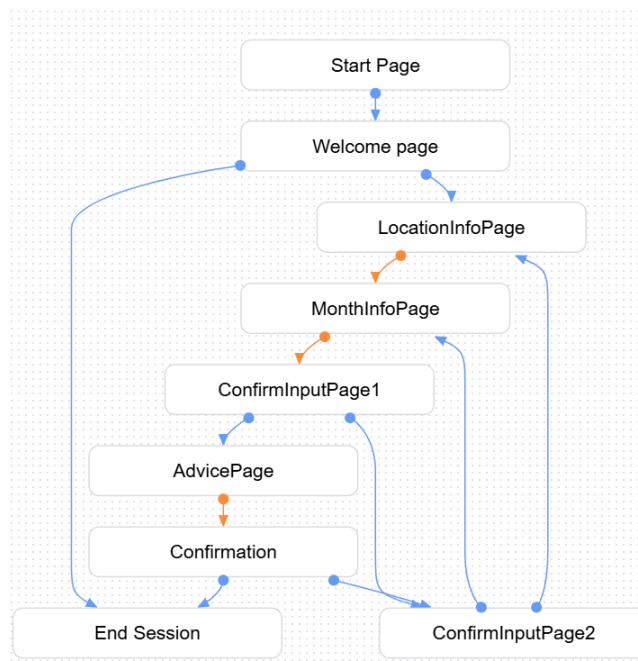
Overview

This project features a conversational chatbot built using Dialogflow CX and Google Gemini, designed to assist adventure-seeking tourists exploring remote regions of Australia. The chatbot provides customized travel guidance based on user inputs, specifically the location and month of travel, offering advice on safety, weather conditions, and preparation.

Targeted at regions such as the Nullarbor, Cape York, and Gibb River Road, it supports users in planning for connectivity, fuel, and climate challenges. The system enhances user confidence by offering reliable, location-based and time-specific insights, especially for travellers preparing to go off-grid.

Key Functionalities:

- **Intent recognition** for yes/no decisions and custom changes.
- **Parameter collection and validation** using entities (e.g., remote area and custom month).
- **Conditional routing** based on collected inputs.
- **Generative fulfillment** using Gemini for real-time, location- and month-specific travel advice.
- **User-friendly revision loop**, allowing changes to location or month before finalizing.



1. Start Page

- **Triggered by:** Default Welcome Intent
- **Bot says:** "Hi there! I'm your travel assistant for off-the-grid Aussie adventures."
- **Action:** Automatically transitions to the WelcomePage.

2. Welcome Page

- **Bot asks:** "Would you like help planning your remote trip?"
- **User response options:**
 - **Yes** → Routes to LocationInfoPage
 - **No** → Ends the session

3. LocationInfoPage

- **Bot asks:** "Which remote region would you like to explore?"
- **Parameter collected:** location (using a custom entity for remote areas)
- **Next step:** If location ≠ null, automatically transition to MonthInfoPage
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4. MonthInfoPage

- **Bot asks:** “Which month are you planning to travel?”
- **Parameter collected:** month (can use either @sys.date or a custom month entity)
- **Next step:** If month ≠ null, transition to ConfirmInput1

5. ConfirmInput1

- **Bot confirms:** “You're planning to visit **\$session.params.location** in **\$session.params.month**. Would you like to continue with this plan?”
- **User response options:**
 - **Yes** → Go to AdvicePage
 - **No** → Go to ConfirmInput2

6. ConfirmInput2

- **Bot asks:** “No problem! What would you like to update — the location, the travel month, or both?”
- **User response options and routing logic:**
 - **Location** → Erase previous location parameter and return to LocationInfoPage
 - **Month** → Erase previous month parameter and return to MonthInfoPage
 - **Both** → Erase both parameters, return to LocationInfoPage, and proceed to MonthInfoPage after new location is provided

7. AdvicePage

The screenshot shows the 'Generators' section of a chatbot builder. It contains a generator named 'travelAdviceGenerator'. The text prompt is: 'Generate detailed travel advice for a trip to \$session.params.location in \$session.params.month. Include: - Road and weather conditions. - Ideal activities based on the season. - Packing recommendations. - Wildlife or safety alerts. - Culturally significant events (if any). - Local travel tips for remote areas in Australia. Keep it concise, friendly, and confidence-boosting. Format the advice into readable paragraphs. Assume the traveller is adventurous but unfamiliar with the area.' The input parameters table has two rows: 'session' mapped to '\$session.params'. The output parameter is '\$request.generative'.

Placeholder	Parameter
session	\$session.params

Output parameter: \$request.generative

- **Function:** Generates customised travel advice using **Vertex AI (Gemini)**
- **Prompt includes:** The collected location and month (which is internally mapped to a season like dry/wet/shoulder)

8. ConfirmationPage

- **Bot asks:** “Was this advice helpful? Would you like to go ahead with this plan?”
- **User response options:**
 - **Yes** → Route to GoodbyePage and end session
 - **No** → Return to ConfirmInput2 to adjust location and/or month