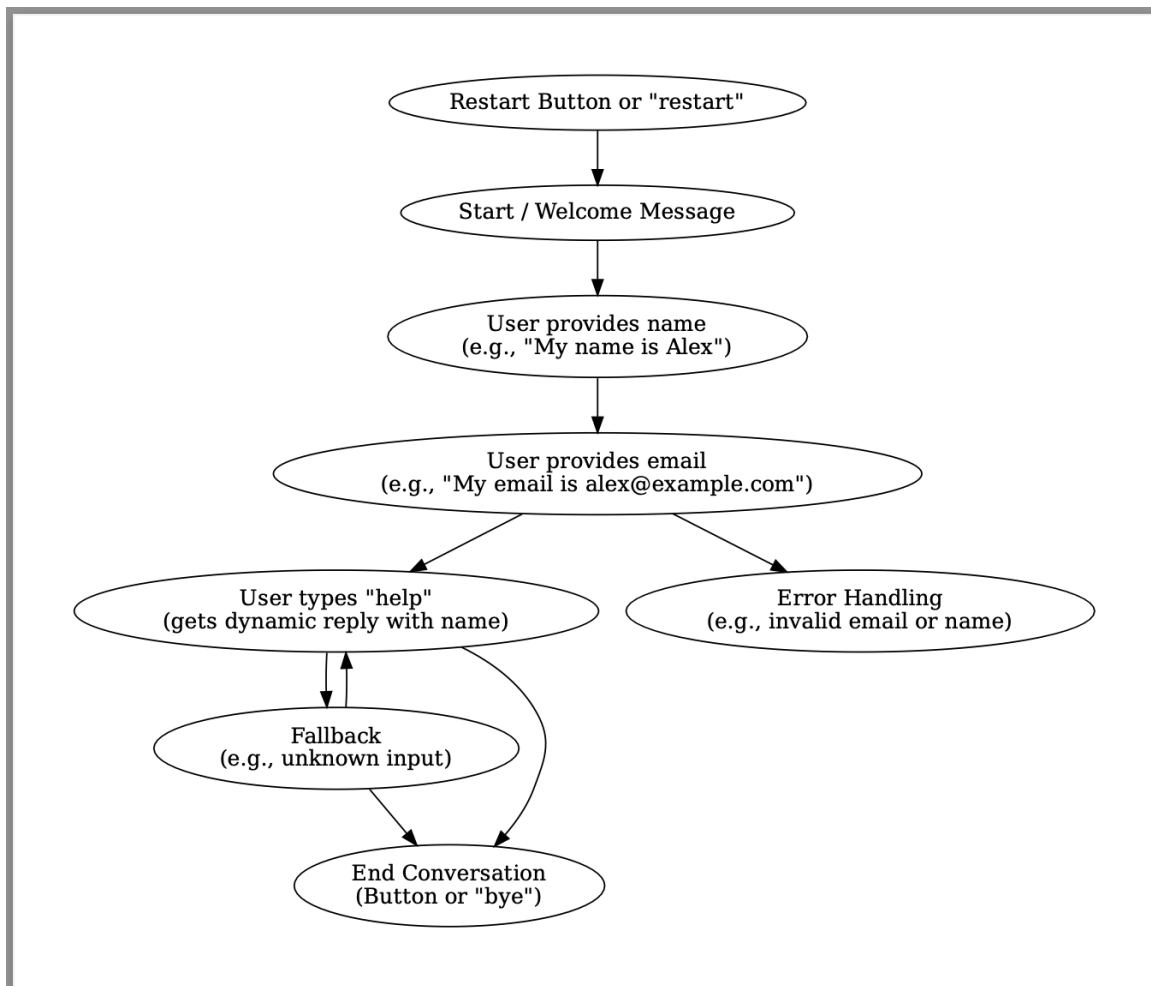


Chatbot Flow Diagram & Explanation

1. Flow Diagram Overview

Below is the conversation flow for the chatbot. Each node in the diagram represents a key state in the user interaction journey. The flow supports structured branching, personalization, and graceful recovery from unexpected input.



2. Logic Explanation & Fallback/Error Handling

The chatbot follows a structured and user-friendly conversation design, described below:

- ➡ ****Start / Welcome****: The conversation begins with a warm welcome message. This sets the tone and invites interaction.
- ➡ ****User Name Collection****: When the user types something like 'My name is Alex', the bot captures and stores the name, then uses it to personalize future responses.
- ➡ ****Email Collection****: If the user enters 'My email is alex@example.com', the bot checks for a valid email format using a basic string check. If the email is valid, it is stored and confirmed.
- ➡ ****Help Intent****: If the user types 'Help', the bot recognizes this intent and offers suggestions. If the user's name is available, it responds with a personalized message.
- ➡ ****Fallback Handling****: If the input doesn't match any known intent (like 'asdf123'), the bot provides a fallback message. This message is clear and actionable, suggesting specific commands like 'help', 'restart', or how to enter personal info. This ensures users are guided back into the supported conversation flow.
- ➡ ****Error Handling****: The bot checks for improper formats, such as malformed emails (e.g., 'alex.com'). If detected, the bot responds with a friendly error message prompting the user to re-enter the input correctly.
- ➡ ****Restart Logic****: The 'Restart' button clears all stored data (name/email), resets the conversation, and brings the user back to the welcome message.
- ➡ ****End Conversation****: The 'End Conversation' button or typing 'bye' gracefully ends the chat. The bot says goodbye and disables the input field to signal the end of interaction.

💡 Throughout the flow, the bot maintains a polite, conversational tone and provides dynamic feedback. By handling errors and fallbacks gracefully and keeping the interface intuitive, the chatbot delivers a smooth and professional user experience.