

# O1 Workflow (so far)

## 1. User Input

- User:
  - Submits a query or prompt to the assistant.

## 2. Assistant Receives Input

- Assistant:
  - Receives the user's query.
  - Understands the user's intent and the context of the conversation.

## 3. Assistant Initiates Reasoning Process

- Assistant:
  - Forwards the query to the CoT reasoning agent for in-depth analysis and response generation.

## 4. CoT Reasoning Agent Processes Input

- CoT Reasoning Agent:
  - Performs internal chain-of-thought reasoning to analyze the query.
  - Breaks down the problem into logical steps.
  - Generates a detailed draft response based on the analysis.

## 5. CoT Reasoning Agent Generates Response

- CoT Reasoning Agent:
  - Completes the draft response encompassing all necessary information and reasoning.

## 6. Response Forwarded to Evaluation Agents

- CoT Reasoning Agent:
  - Sends the draft response to the evaluation agents for assessment.

## 7. Evaluation Agents Assess Response

- Evaluation Agents:
  - Review the draft response for:
    - Accuracy: Correctness of information and reasoning.
    - Relevance: Appropriateness to the user's query.
    - Clarity: Ease of understanding.
    - Policy Compliance: Adherence to guidelines and avoidance of disallowed content.

- Assign scores based on these criteria.
- Identify any issues or areas for improvement.

## **8. Feedback Sent to CoT Reasoning Agent (If Necessary)**

- Evaluation Agents:
  - Provide feedback or highlight issues in the response.
- CoT Reasoning Agent:
  - Receives feedback for revisions.

## **9. CoT Reasoning Agent Revises Response (If Necessary)**

- CoT Reasoning Agent:
  - Adjusts the response based on the feedback.
  - May repeat steps 6 and 7 until the evaluation agents approve.

## **10. Final Response Approved by Evaluation Agents**

- Evaluation Agents:
  - Confirm that the response meets all quality and policy standards.
  - Approve the final version of the response.

## **11. Assistant Receives Final Response**

- Assistant:
  - Receives the approved response from the evaluation agents.
  - Ensures it fits the conversational context.

## **12. Assistant Delivers Response to User**

- Assistant:
  - Communicates the final, polished response to the user.
  - Maintains a conversational tone and ensures clarity.

## **Summary of Interactions**

- User ↔ Assistant:
  - The user interacts directly with the assistant by submitting queries and receiving responses.
- Assistant ↔ CoT Reasoning Agent:
  - The assistant relies on the reasoning agent to perform detailed analysis and generate responses.
- CoT Reasoning Agent ↔ Evaluation Agents:
  - The reasoning agent's output is reviewed by the evaluation agents to ensure quality and compliance.
- Evaluation Agents ↔ Assistant:
  - Once the response is approved, it's sent back to the assistant for delivery to the user.