D NUGGET DESIGN

In this section, we provide illustrative examples for each memory ability, demonstrating how nuggets are derived from the corresponding probing questions.

1. **Abstention**

   Objective: The correct behavior is to acknowledge that the requested information is not present in the provided conversation.
   Rubric pattern: Each atomic unit should be in this format: *States that, based on the provided chat, there is no information about `<target topic>`*
   Example JSON:

   ```
   {
       "question": "What specific advice did Manuel give about property management
           companies during the March 5 Investors Meetup?",
       "ideal_response": "Based on the provided chat, there is no information related
           to the specific advice Manuel gave about property management companies.",
       "source_chat_ids": {},
       "rubric": [
           "Based on the provided chat, there is no information related to the specific
               advice Manuel gave about property management companies."
       ]
   }
   ```

2. **Contradiction Resolution**

   Objective: Correct behavior is that the LLM should detect the contradiction and state both contradictory information while requesting clarification.
   Rubric pattern:
   - States there is contradictory information.
   - Mentions claim `<A>`
   - Mentions claim `<B>`
   - Requests clarification about which statement is correct
   Example JSON:

   ```
   {
       "question": "Have I ever attended any real estate webinars or investor meetups?"
           ,
       "ideal_answer": "I notice you've mentioned contradictory information about this.
           You said you have never attended any real estate webinars or investor
           meetups, but you also mentioned attending a webinar about Turkey's rising
           demand for multi-family rentals. Which statement is correct?",
       "source_chat_ids": {
           "first_statement": [
           ],
           "second_statement": [
           ]
       },
       "rubric": [
           "LLM response should state: there is contradictory information",
           "LLM response should mention: You said you have never attended any real
               estate webinars or investor meetups",
           "LLM response should mention: you also mentioned attending a webinar about
               Turkey\u2019s rising demand for multi-family rentals",
           "LLM response should mention: which statement is correct?"
       ]
   }
   ```

3. **Event Ordering**

   Objective: Correct behavior is the model lists a sequence of events/topics in the correct chronological order.
   Rubric pattern:
   - LLM response should mention: `<event 1>`
   - . . .