

## Part 1: Sequential Conversation Test

### Automated Tests (Mock LLM):

```
Sequential_Conversation_test.py ... [100%]  
===== 3 passed in 1.22s =====
```

### Qualitative Tests (Live LLM):

#### 1. Happy Path:

```
***** Happy Path *****  
---  
Message 1  
---  
  
>> No old messages to update summary with  
---  
Message 2  
---  
  
>> No old messages to update summary with  
---  
Message 3  
---  
  
>> No old messages to update summary with  
---  
Message 4  
---  
  
>> Found 8 messages, dropping oldest 2 messages.  
>> New summary: The conversation began with the user introducing themselves as James Potter. The AI responded with a greeting and offered to assist. There was no further interaction beyond this initial exchange.  
---  
Message 5  
---  
  
>> Found existing summary  
>> Found 8 messages, dropping oldest 2 messages.  
>> New summary: The conversation started with the user, James Potter, introducing themselves, but there was no further interaction. In the recent exchange, the user asked for a Starbucks branch, and the AI responded by requesting their location or the area they are interested in to assist further.  
---  
=== Conversation history ===  
  
System (Summary): The conversation started with the user, James Potter, introducing themselves, but there was no further interaction. In the recent exchange, the user asked for a Starbucks branch, and the AI responded by requesting their location or the area they are interested in to assist further.  
  
Human: The branch I am currently looking at is in Subang Jaya.  
  
AI: I don't have specific Starbucks locations in Subang Jaya. Would you like me to help you find the nearest Starbucks branch there?  
  
Human: This branch opens at 8am  
  
AI: Thank you for the information. Would you like me to find the address and opening hours of that Starbucks branch in Subang Jaya?  
  
Human: What is my name again?  
  
AI: Your name is James Potter.  
*****
```

#### 2. Interrupted Path:

```
***** Interrupted Path *****  
---  
Message 1  
---  
  
>> No old messages to update summary with  
---  
Message 2  
---  
  
>> No old messages to update summary with  
---  
Message 3  
---  
  
>> No old messages to update summary with  
---  
Message 4  
---  
  
>> Found 8 messages, dropping oldest 2 messages.  
>> New summary: The conversation began with the user introducing themselves as James Potter. The AI responded with a greeting and offered assistance. No further exchanges have occurred.  
---  
Message 5  
---  
  
>> Found existing summary  
>> Found 8 messages, dropping oldest 2 messages.  
>> New summary: The conversation initially involved the user introducing themselves as James Potter, to which the AI responded with a greeting and offered assistance. In the latest exchange, the user asked for a Starbucks outlet, and the AI requested their location or area to help find one. No further details or responses have been provided beyond this point.
```

```
=== Conversation history ===
```

```
System (Summary): The conversation initially involved the user introducing themselves as James Potter, to which the AI responded with a greeting and offered assistance. In the latest exchange, the user asked for a Starbucks outlet, and the AI requested their location or area to help find one. No further details or responses have been provided beyond this point.
```

```
Human: Also, do you ship internationally?
```

```
AI: I don't have information about Starbucks' shipping policies. Typically, Starbucks sells products in their stores and online within certain regions, but international shipping details are best checked directly on their official website or by contacting their customer service. Would you like help finding a nearby Starbucks outlet?
```

```
Human: I'm looking for a outlet in Subang Jaya
```

```
AI: I can help you find a Starbucks outlet in Subang Jaya. Would you like the address, or directions to the nearest location?
```

```
Human: What is my name again?
```

```
AI: Your name is James Potter.  
=====
```

### 3. I Don't Know Path

```
***** IDK Path *****
```

```
---
```

```
Message 1
```

```
---
```

```
>> No old messages to update summary with
```

```
---
```

```
Message 2
```

```
---
```

```
>> No old messages to update summary with
```

```
---
```

```
Message 3
```

```
---
```

```
>> No old messages to update summary with
```

```
---
```

```
Message 4
```

```
---
```

```
>> Found 8 messages, dropping oldest 2 messages.
```

```
>> New summary: The conversation began with the user introducing themselves as James Potter. The AI responded with a friendly greeting and offered to assist. No further details or topics were discussed.
```

```
=== Conversation history ===
```

```
System (Summary): The conversation began with the user introducing themselves as James Potter. The AI responded with a friendly greeting and offered to assist. No further details or topics were discussed.
```

```
Human: I'm looking for a starbucks branch.
```

```
AI: Could you please tell me your location or the area where you're looking for a Starbucks branch?
```

```
Human: By the way, is there an outlet in Subang Jaya?
```

```
AI: I don't have information about specific Starbucks locations in Subang Jaya. Would you like me to help you find the nearest Starbucks outlets or suggest other ways to locate one?
```

```
Human: What's the opening time for the outlet in Subang Jaya?
```

```
AI: I don't have the opening hours for the Starbucks outlet in Subang Jaya. Would you like me to help you find this information through another source?  
=====
```