

 Hello.py

chat\_manager.py

```

8      class Message:
9          sender: str
10         content: str
11         ts: datetime = field(default_factory=datetime.utcnow)
12         id: Optional[int] = None # optional unique id if you want
13
14         def __repr__(self):
15             # compact representation for logs
16             t = self.ts.strftime("%Y-%m-%d %H:%M:%S")
17             return f"[{t} UTC] {self.sender}: {self.content}"
18
19     # ----- Core Manager -----
20     class ChatHistoryManager:

```

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Run  chat\_manager ✕



```
/Users/somyadeepdey/PycharmProjects/PythonProject1/.venv/bin/python /Users/somyadeepdey/PycharmProjects/PythonProject1/.venv/chat_manager.py
```

```
Incoming queue: [[2025-09-04 08:50:36 UTC] Alice: Hey, are you free?, [2025-09-04 08:50:36 UTC] Bob: Check this link!]
```

```
Dequeued incoming: [2025-09-04 08:50:36 UTC] Alice: Hey, are you free?
```

```
Incoming queue after dequeue: [[2025-09-04 08:50:36 UTC] Bob: Check this link!]
```

Sent history: [[2025-09-04 08:50:36 UTC] Me: Hello Alice!, [2025-09-04 08:50:36 UTC] Me: Yes, I'm free now.]

Undo: [2025-09-04 08:50:36 UTC] Me: Yes, I'm free now. (retracted)

Sent (with retracted marked): [[2025-09-04 08:50:36 UTC] Me: Hello Alice!, [2025-09-04 08:50:36 UTC] Me: Yes, I'm free now. (retracted)]

Redo: [2025-09-04 08:50:36 UTC] Me: Yes, I'm free now.

Sent after redo: [[2025-09-04 08:50:36 UTC] Me: Hello Alice!, [2025-09-04 08:50:36 UTC] Me: Yes, I'm free now.]

```
Process finished with exit code 0
```