report-lab2

1. Identified Issues & Limitations

While working on the appointment system, I noticed several limitations and areas that needed improvement:

Repetitive No Input & Invalid Input Messages

• The system used the same fixed messages when the user didn't respond or provided an unrecognized input, making interactions feel repetitive.

Limited Recognition for Names & Times

• If a user mentioned a name or time that wasn't in the predefined grammar, the system didn't provide clear guidance on what to do next.

Redundant State Logic

 Some event handling, especially related to input validation, was repeated across multiple states, making the code unnecessarily complex.

Flow Getting Stuck in CheckGrammar

• When a user provided unrecognized input, the conversation often got stuck in the CheckGrammar state, making it difficult to proceed smoothly.

2. Implemented Improvements

Randomized No Input & Invalid Input Messages

- Implemented a function to select a random response dynamically, making interactions more natural.
- **Before:** Fixed messages were written directly in entry.
- After: Messages are now picked randomly each time Nolnput or InvalidInput is triggered.

New Control State for Smoother Flow

- Introduced a Control state to prevent the conversation from getting stuck in CheckGrammar.
- This state ensures that after an error or no input, the system correctly determines what to ask next based on the current context.

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