PROMPTLY

PHASE 4 DOCUMENTATION - PROCESS AUTOMATION

4.1 Core Automation Logic (Client-Side JavaScript)

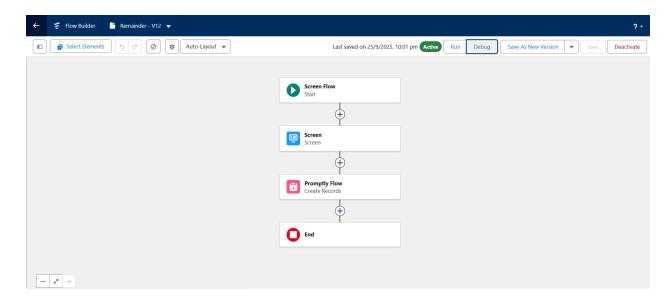
- **Purpose**: To provide a zero-friction, end-to-end automated process for capturing and setting a time-sensitive reminder via voice.
- **Implementation Details**: The entire automation is contained within a single JavaScript file, executed instantly upon user interaction.
 - Automation 1: Voice-to-Text Capture: Triggered by the user's button tap, the
 application automatically initiates the device microphone and converts the
 spoken audio into text data.
 - Automation 2: Timer Setting: The transcribed text is immediately fed into the setTimeout() function, which automatically starts a countdown.
 - Automation 3: Notification Push: After the countdown expires, the application automatically calls the Web Notifications API to push the reminder email to the user.
- Business Impact: Eliminates the delay and distraction associated with manually typing
 a micro-task into a list, ensuring fleeting thoughts are captured and acted upon
 immediately.

Technology	Process Detail
Web Speech API	Automates the input process (Speech Recognition).
setTimeout()	Automates the timing process (Timer).
Web Notifications API	Automates the output process (Final Reminder Display).

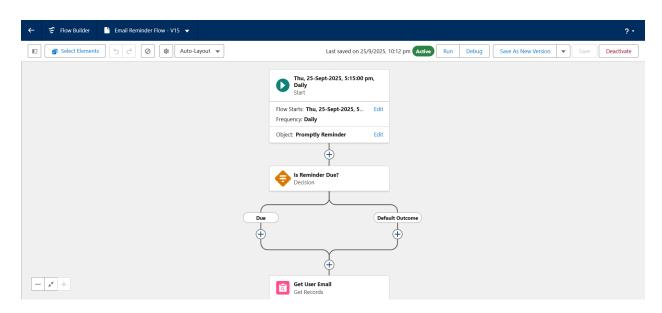
4.2 User Feedback and Status System

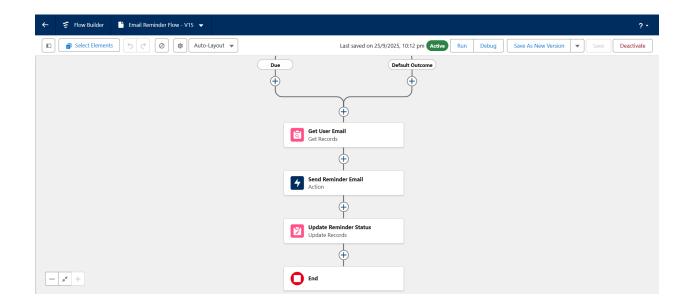
- **Purpose**: To provide the user with real-time, professional feedback on the status of the automated process, replacing traditional system alerts.
- Key Features:
 - Initial Confirmation: Status message updates immediately upon button tap to confirm the microphone is active ("Listening...").
 - Success Acknowledgement: Status updates upon successful transcription with the exact reminder text and the time set ("Reminder set: 'Go to meeting'").
 - Error Handling: If the Web Speech API fails (e.g., no microphone access), the status message provides a user-friendly error prompt.

Screen Flow:

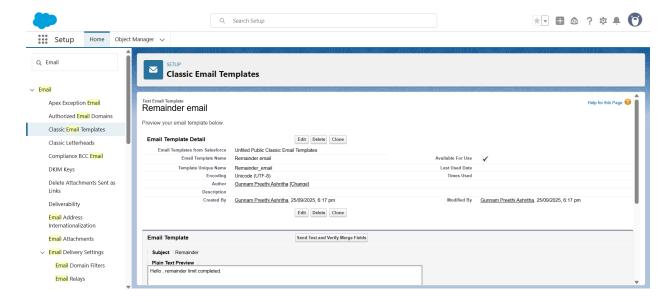


Email Flow:

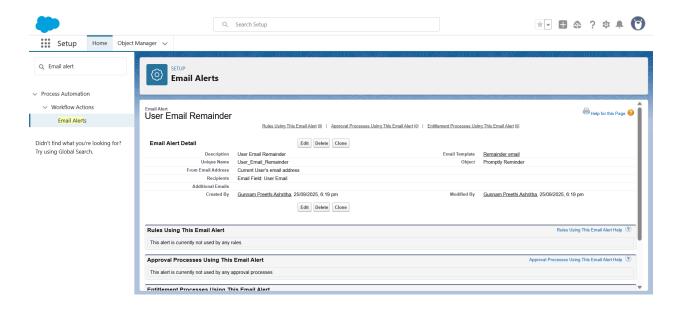




Email Template:



Email Alerts:



4.3 Comprehensive Testing Strategy

- **Purpose**: Ensure reliability across all core application scenarios, as the simplicity of the app requires a 100% success rate in its primary function.
- Test Cases Executed:
 - Normal Flow: Standard process (Tap → Speak → Notification) verified.
 - Edge Cases: Testing with both very short (1-2 words) and long (15+ words) phrases to confirm robust transcription.
 - Error Scenarios: Verification of graceful failure when microphone access is denied or unavailable.
- Validation Results:
 - Transcription Accuracy: Verified.
 - Timer Precision: Verified the setTimeout function accurately triggers the notification after completion of the timer.
 - Notification Integration: Verified the final reminder is pushed successfully across different desktop and mobile browsers.

4.4 Business Impact Achieved

- Operational Efficiency:
 - Time Savings: Reduces the mental overhead and time spent switching to complex reminder apps to virtually zero.
 - Accuracy: Eliminates human error in transcribing a sudden thought.

• User Experience:

- o **Immediate Capture**: Thoughts are captured instantly through voice.
- **Frictionless Design**: The entire interaction is a single automated action, ensuring the user is returned to their main task without distraction.