Vocalis Notitia

This document outlines the conceptual flow of the project Vocalis Notitia, a mobile application designed to transform voice input into structured, meaningful notes. The workflow emphasizes capturing spoken content, converting it into text, organizing it based on context, and enabling efficient retrieval and export for future use.

Architecture of Vocalis Notitia:

1. Mobile App (What the user sees)

- The app screen has
    - A Record button → to capture voice.
    - A Notes viewer → to read past notes.
    - An Export option → to save or share notes (PDF, text, etc.).

2. Audio Processing (Making sound clear)

- After recording, the system:
    - Removes background noise.
    - Balances the sound so it's clear.

3. Speech to Text (Turning voice into words)

- The voice is converted into text.
- The text is then:
    - Cleaned → removes fillers like "um, ah".
    - Split → into sentences or sections.

4. Note Understanding (Making it useful)

- The app checks what kind of notes it should create:
    - Meeting → decisions, action points.
    - Lecture → key ideas and summary.
    - Interview → questions and answers.
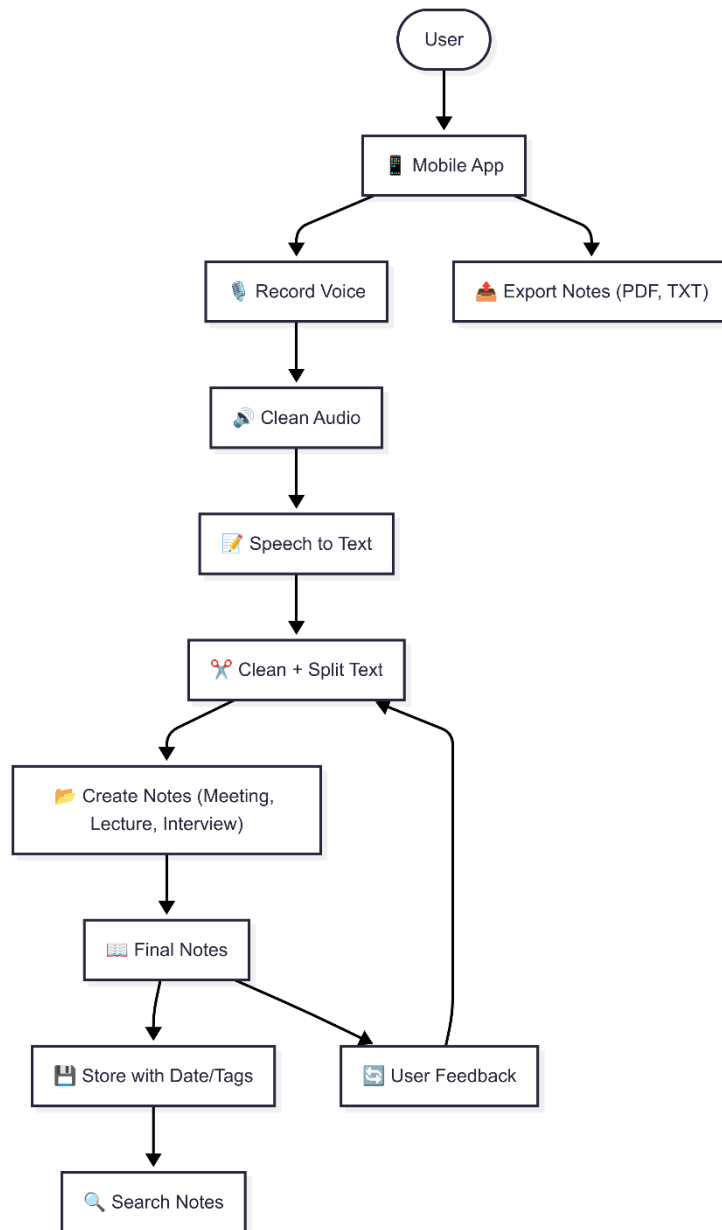- It then creates a final clean note.

5. Storage & Search (Keeping everything safe)

- Notes are saved with date, time, and tags.
- You can later search for notes by keyword, tag, or date
- Notes can be exported into files.

6. Feedback (Getting better over time)

- If the user corrects something, the system learns.
- Next time, the notes will be more accurate.

Architecture Diagram:

Deep Flow of Vocalis Notitia:

1. Capture Stage

- User initiates recording.
- System captures voice input.
- Raw audio is temporarily stored for further processing.

2. Processing Stage

- Audio input is converted into text form.
- Transcript is cleaned and structured into readable format.

3. Understanding Stage

- Transcript is analyzed based on context.
- Meeting context → Organized into meeting notes.
- Lecture context → Summarized into key learning points.
- Interview context → Extracted into Q&A; highlights.

4. Knowledge Management Stage

- Notes are enriched with metadata (date, tags, speaker identity).
- Processed notes are stored in a knowledge archive for long-term access.

5. Retrieval & Interaction Stage

- User can search notes by date, tag, or keyword.
- User can export notes in chosen formats (e.g., text, markdown, PDF).
- System displays results back to user.

Summary

- **Vocalis Notitia** is a mobile app that **records your voice and turns it into smart notes**.

- The system flow:

    1. **User speaks** → app records voice.

    2. **Audio is cleaned** → background noise removed.

    3. **Voice becomes text** → through speech-to-text.

    4. **Text is structured** → into clear notes (Meeting, Lecture, Interview).

    5. **Notes are saved** → with date, tags, and metadata.

    6. **User can search or export** notes anytime.

    7. **Feedback loop** → system learns from corrections.

- The design is **simple, modular, and scalable** → easy to expand with new features in the future.

Conclusion

- This project shows how **AI + mobile apps** can make life easier by **automating note-taking**.

- Instead of carrying an external device (like Plaud Recorder), everything is done **inside the phone app**.

- Users save time, stay organized, and never lose important information from **meetings, lectures, or interviews**.

- With continuous improvements and feedback, **Vocalis Notitia** can become a powerful digital assistant for knowledge management.

In short:
"Speak freely, let the app listen, and walk away with organized notes — anytime, anywhere."

Flowchart:

Start → User Action → Begin Recording → Capture Voice Input → Store Audio Temporarily → Convert Speech to Text → Clean & Structure Transcript → Context Choice

Context Choice branches:
- Meeting → Organize into Meeting Notes
- Lecture → Summarize into Key Points
- Interview → Extract Q&A Highlights

→ Finalized Notes → Attach Metadata (date, tags, speaker) → Store in Knowledge Archive → User Request

User Request branches:
- Search by Date/Tag → Retrieve Relevant Notes
- Export → Convert Notes into Chosen Format

→ Show Notes to User → End