

VOICE2TEXTIFY

A REAL-TIME VOICE-TO-TEXT MOBILE APPLICATION

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THE PROBLEM

- Difficulty understanding spoken language for people with hearing impairments or in multilingual settings, especially in noisy environments.
- Lack of accessible and reliable solutions for real-time transcription and translation.

SOLUTION

- A mobile app that transcribes and translates spoken language into text.
- Designed for educational, professional, and social use.
- Provides a user-friendly interface for real-time transcription and multilingual support.

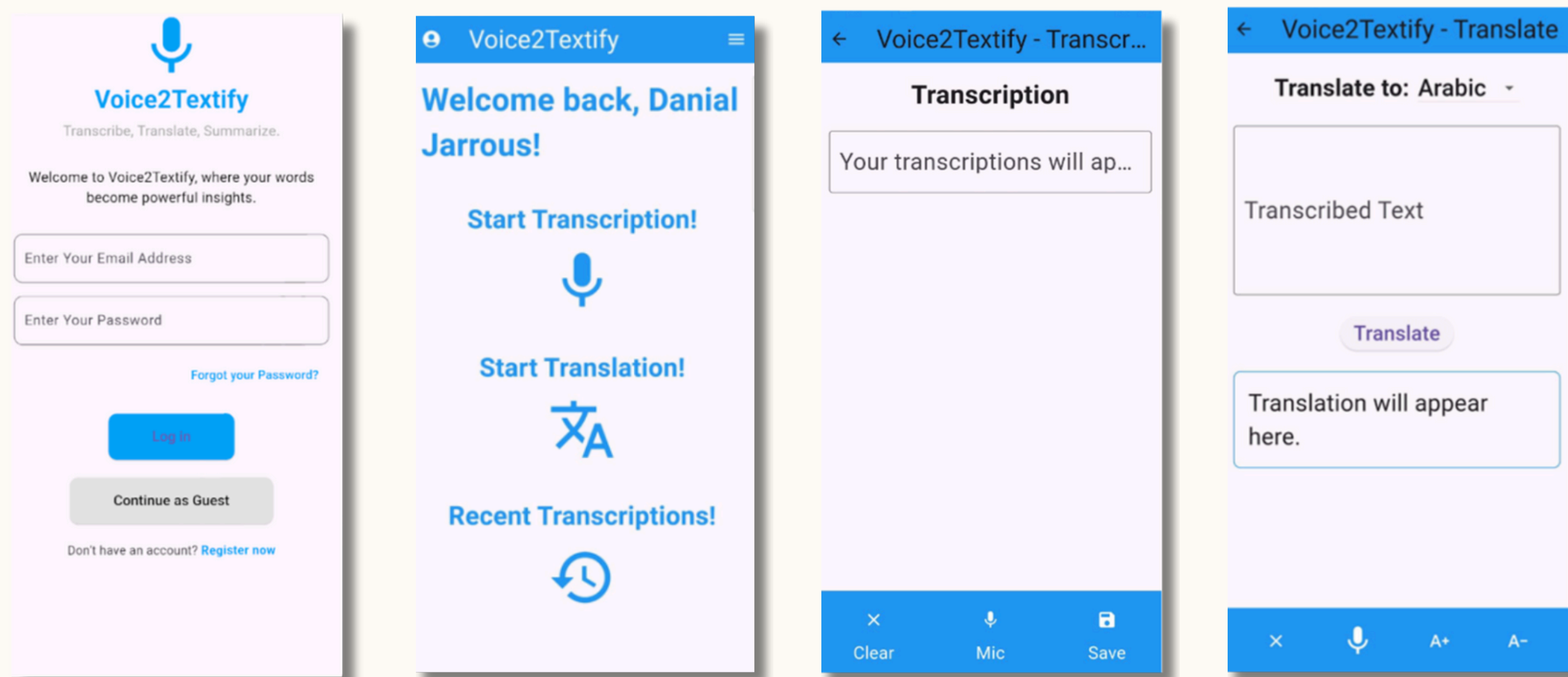


TECHNOLOGIES

- **Flutter SDK:** For cross-platform app development.
- **Speech-to-Text Package:** Provides accurate speech transcription.
- **Translation API:** Enables multilingual translation.
- **Firebase Firestore:** Manages data storage and synchronization.
- **Firebase Authentication:** Ensures secure login and account management.



OUR APP



FUNCTIONAL REQUIREMENTS

- **User Authentication:** Login, sign-up, and guest access modes.
- **Real-Time Transcription:** Captures and transcribes audio accurately.
- **Translation:** Converts transcribed text into selected languages.
- **Data Management:** Saves, retrieves, and manages transcription sessions.

PROJECT GOALS

- Develop a reliable real-time transcription and translation app.
- Ensure ease of use and accessibility for diverse user needs.
- Provide high-quality transcription and translation accuracy.



CHALLENGES

- **Speech-to-Text Implementation:** Switched from Google Cloud to Flutter Speech-to-Text due to gRPC complexity.
- **User Interface Design:** Balancing simplicity and functionality.
- **Testing Limitations:** Limited testing in noisy environments.
- **Time Constraints:** Prioritized essential features over advanced functionalities.

