



# VoiceBack

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## Background

Voice disorders can significantly affect a person's daily life. Traditional voice therapy requires frequent in-person sessions with doctors, which can be time-consuming and difficult for patients to maintain. With advances in digital health technologies, remote monitoring and rehabilitation have become increasingly feasible.

**Voiceback** addresses this challenge by connecting patients and doctors through a digital platform. Patients use the mobile app to record their voices and perform exercises, while doctors access the web platform to track progress and analyze results.

## Motivation

The idea for **Voiceback** was inspired by the personal story of Mr. Oscar Lopez Alegre (CEO of Nextway Technology), who once lost his voice and needed professional help to recover. This experience highlighted how important proper guidance and consistent therapy are for patients with voice disorders.

Our motivation is to create a tool that help patients to actively engage in their recovery, while giving doctors better insights into treatment effectiveness. By bridging the gap between patients and healthcare providers, **Voiceback** aims to improve the quality of life for people suffering from voice loss.

## App Features

### Amplify Your Voice

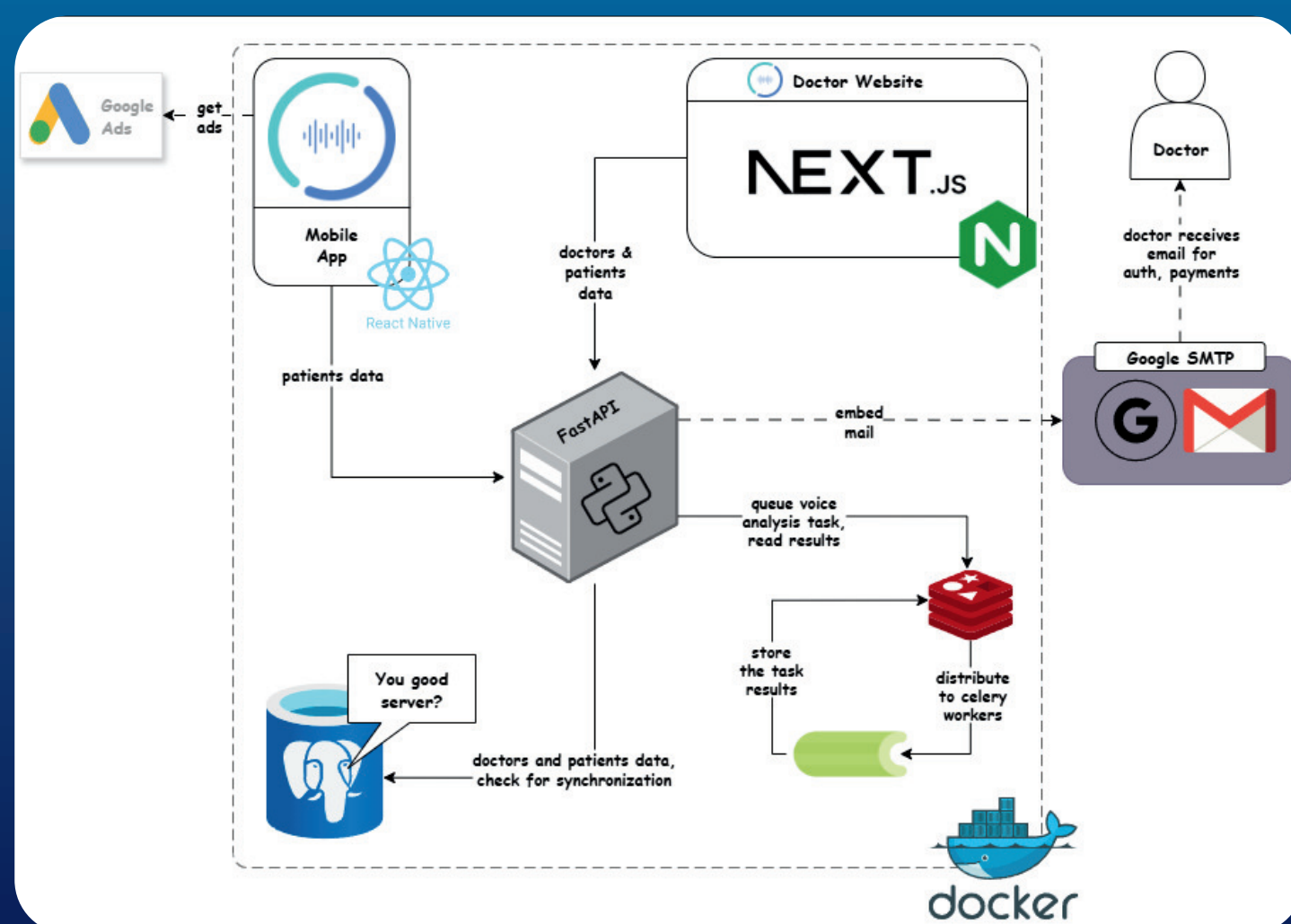
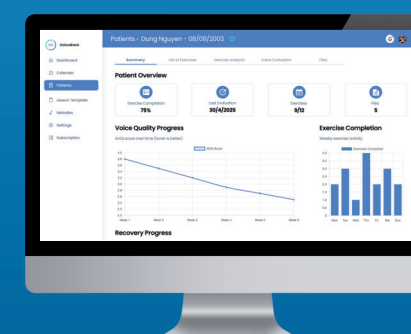
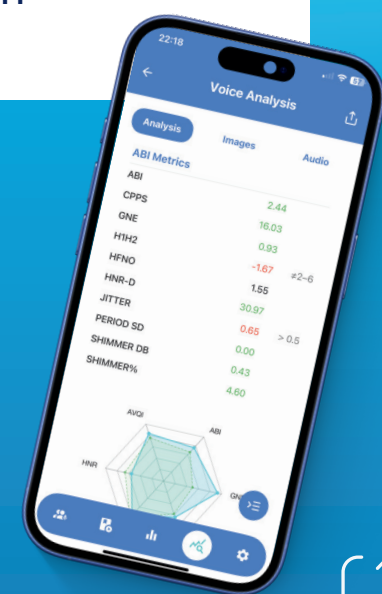
Turn speech into clear text with real-time multilingual support, making communication easier anytime, anywhere.

### Personalized Voice Gym

Get custom vocal exercises, track goals, and follow doctor-guided samples or add your own.

## Objectives

- Develop a mobile app for patients to record voice and complete vocal exercises.
- Build a secure backend to process, store, and analyze recordings.
- Create a web platform for doctors to track progress and give recommendations.
- Support patients in regaining their voice through guided therapy and feedback.



### Voice Insights at Home

Monitor pitch and volume with dual graphs, and access clinic-level testing and quality metrics from home.

### Smart, Secure Care

Receive automatic, accurate analysis with Praat program and connect safely with doctors for simple remote care. Doctors can access patient's insights and create exercises for them.

## Conclusion

**Voiceback** represents a modern solution to an old problem, making voice therapy more accessible, consistent, and effective. By combining mobile tools for patients with a web platform for doctors, it bridges the gap between home practice and professional care. Through personalized exercises, real-time analysis, and secure doctor-patient connections, **Voiceback** empowers patients to take control of their recovery while giving doctors the insights they need to guide treatment. Ultimately, it aims to restore not just voices, but also confidence and quality of life.