

ABSTRACT

A mobile-based application was designed to help children with Down Syndrome learn to speak in Indonesian. The app aims to improve verbal communication skills with an interactive, fun and user-friendly approach. The main features of the app include basic word and phrase recognition, pronunciation exercises with audio visual support, as well as educational games that encourage active interaction.

The app uses voice recognition technology to provide immediate feedback on the user's pronunciation, allowing children to learn independently and gain motivation to keep practicing. In addition, the app provides adaptive modules that can be tailored to individual abilities, ensuring each child has an optimal learning experience.

The app development involved language experts, speech therapists and software developers to ensure its effectiveness and usability. Based on the initial trial results, the app showed significant potential in improving the verbal communication skills of children with Down Syndrome, as well as providing support for parents and teachers in the learning process. The app is expected to be an innovative solution to support educational inclusion and communication development of children with special needs in Indonesia.

Keywords: Mobile application, Down Syndrome, Learn to speak, Basic word and phrase recognition, Pronunciation practice.