

Abstract

The mobile voice actions project (Speak2Do) is an android application enables mobile users to do many tasks on their phones via voice, especially handicaps and blind people in effective way. In this version, the application provides many features that a user frequently does and the minimum android platform supported is 2.3. The new versions will contain more specific features to focus help to blind people like OCR, Special spooking keyboard and custom user interface also will be provided for all android platform.

The current main categories a speaker can order are custom views of call logs, send, show and read messages, send emails, call contacts, view contact details, create and delete calendar events, set alarms, ask about time and date, change mobile modes, Wi-Fi and Bluetooth settings, web queries, launch various apps...

Speak2Do requires internet connection, since it uses Google speech API to get most related hypotheses of what user said. Mobile Voice Actions can work in acceptable level of noise. The returned hypotheses are affected by pronunciation of speaker and how he says words and phrases.