

CHAPTER 1

INTRODUCTION

Hand held devices have been an inevitable part of our life for almost a decade. Of all the mobile platforms, Android has been the most sought-after OS by a majority of mobile users. There comes the matter of the degree of publicity or reach an application developed in Android is likely to enjoy. Many of us need to make a call or send a message at anytime from anywhere. It is important to remember that people with disabilities have many different accessibility needs and that there are different ways to make technology changes. This project looks at the state of accessibility in the messaging system that may provide directions for increasing communication technologies worldwide. The aim of this project is to help blind people by developing a user interactive application through which a user can access the system using voice as input.

1.1 Problem Statement

The modern innovations are mostly meant for individuals having no disabilities. If taken a glance, it turns clear that there are not many of these technologies used for the disabled class of the society. Hence, being responsible software engineers as well as human beings having care for our fellow disabled men, it turned out to be our objective to develop an android application for the visually impaired mainly by converting speech to text and vice versa. Thus making it easier for them to communicate and live better.

1.2 Existing System

Some applications are already designed for the visually impaired community to connect, communicate and socialize without vision. But those applications do require some patience to use as the wizard can be confusing when it is reading instruction parts of the instructions. Some applications do have a number of components that have to be downloaded separately.

1.3 Proposed System

The smart phone era has evolved tremendously and given the access to information services that could only be dreamt of a decade ago. This application aims to

bring the same level of lifestyle improvements to the visually impaired and blinds community enhancing the ways for them to gain access to highly advanced features on a smart phone with just their touch and sound.

1.4 Objective

This project is based on creating a messenger for the set of humans, who may not be in the position of using mobile phones for messaging or any other kinds of communicating devices, with the required comfort. In other words, messaging can be completely voice based. The application listens to your voice commands and then responds by converting your text to speech and vice versa. This application's capability to convert from speech to text and vice versa, a trendy feature of the Android platform for many years which can be effectively used by the blind to communicate. The main objective of this android application is to provide communication system for the blinds in an effective way by exploring the powers of the platform to the maximum. The objective also includes the exploitation of some of the existing features to the possible extend. The application provides with better user interface and interaction is completely through voice. The application is expected to be effective with a convenient and comparatively simple user interface. The project attracts wider scope as Android is a commonly used platform today and is still facing a shortage of apps for common day-to-day facilities.