

UNIVERSITI TEKNOLOGI MARA

**Help To Talk: Mobile Application
In Assisting the Deaf**

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ABSTRACT

The communication is when two people communicate to each other. They send and receive information. Deaf and mute people also communicate but they use sign language as a method because they cannot speak and hear. However, there is problem arise when normal people and deaf and mute try to communicate because most of the normal people did not know and understand sign language. This project aim to develop a mobile application to assist the deaf in their daily communication using android mobile as its platform. Help to talk is a mobile application that use picture, icon and text to communicate. This app enables the users to use camera and access picture from their phone's gallery. The objectives of this project are to identify user requirement, to design the user interface and to develop Help to talk: Mobile Application for Assisting the Deaf in communication. The target user for this project is individual who is a deaf-mute and normal hearing person. Platform that will be used for this project development is android mobile application. This project adapts the Mobile Application Development Life Cycle (MADLC) which comprises of seven stages. There are a few limitations which are the application cannot detect sensitive data, cannot delete note, the language is in Malay, only available for android operating system. This project developed until testing phase only. In the future, this application is recommended to add delete note, edit note and application is available on multiple platform. In conclusion, this project will benefit the normal, deaf and mute people in communication their daily life.

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CHAPTER 1

INTRODUCTION

1.0 Overview

This chapter lays out the background and reasoning for the research. This also outlines the issue statement of this project, the objectives, the scope and the significance of the project.

1.1 Project Background

Deaf-mute is a term used in the past to identify people who are deaf or mute and unable to speak using sign language. The term is mainly used to refer to the deaf in the historical context, to indicate that the voice of a deaf person who cannot speak or has a certain degree of oral ability but chooses not to speak due to atypical negative or unnecessary attention is sometimes attracted (What Does Deaf-Mute Mean?, 2020). These people communicate using sign language. Some people think that if used outside of its historical context, this is a derogatory term. The preferred term today is deaf. In addition, it is sometimes used to jokingly refer to other hearing people, mocking or invoking images of people who refuse to adopt common sense or are unreliable (National Association of the Deaf - NAD, 2020)

Communication is any exchange of information between two entities. There are a lot of issues when come to communication between deaf and mute and normal person. One of the issues in communication is misunderstanding of the information received. This happened when communication process is not clearly understood either by deaf or normal people. Thus, this issue may lead the message become distorted and will wasting both time by causing confusion. Likewise, this will make deaf having difficulties for them to go any places by themselves. Other than that, issues in communication is when having language differences and the difficulty in understanding unfamiliar accents. It is probably will affected the communication process between deaf and normal people (Buarqoub, 2019).

There are a lot of mobile application that have been developed to help deaf person in communication such as Talk to Deaf (Google Play,2018), Deaf Communicator