**A CHATBOT APPLICATION FOR IOS TO RECOMMEND RECITING**

**THE QUR’AN AYAH**

by

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**A Thesis**

*Submitted to the Faculty of Nanjing Xiaozhuang University*

*In Partial Fulfillment of the Requirements for the degree of*

**Bachelor of Software Engineering**



School of Information Engineering

Fangshan, Nanjing

May 2020

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*Dedication*

*To my beloved family, teacher, and friends.*

**ACKNOWLEDGMENTS**

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ABSTRACT

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# INTRODUCTION

1. Background of the Study

Religion is a doctrine or system that regulates the system of faith or belief and worship of Almighty God and the rules relating to the association of humans with humans, and humans with their environment [1]. In 2016, it was recorded that 62% of the world considered themselves to be religious people, 25% consider themselves unreligious, while 9% think they are atheists or have no faith [2].

Islam is the last shari'ah that Allah sent down to the Prophet Muhammad bin Abdullah Sallallahu 'alaihi wasallam which is the closing of His prophets and messengers. Islam is the only true religion. Allah does not accept religion from anyone but Him. And Allah has made Islam an easy religion, there are no difficulties in it [3].

Indonesia is the 4th most populous country in the world, in 2010 data were collected with a total of 238.5 million people and the population of Muslims was 207 million or 87% [4]. The International Community said that Indonesia was the largest Muslim country in the World [5].

But even though the majority of Indonesian people are Muslims, the religious level in Indonesian society itself is very weak at 58%, while the non-religious figure reaches 30% [2], whereas religion itself is a guideline, a life guide for those who believe it, because the non-religious rate of the community is very high, indicating they do not involve religion in their lives so they often fall into a state of depression where depression is a mental disorder characterized by feelings of sadness, loss of interest or pleasure, decreased energy, feelings of guilt or inferiority, problems with sleep or appetite and lack of concentration [6] because of. WHO estimates that in 2020 depression will become the disease with the highest number of cases, which ranks second in the global disease burden, after heart disease. The prevalence of depression in Indonesia in the age group of more than 15 years reached 6.1 percent or 11,315,500 people [7], this indicates that the level of depression in Indonesia is very high.

With the development of technology in this era, it is inevitable that the presence of information technology is the cause of the emergence of various application, the one of the application is social media whose initial purpose is to connect between family, friends and those around them to be one of the causes of depression, because they see friends or people around them have a better life, more established or more perfect than themselves to be the cause of the emergence of negative emotions that feel hopeless and helpless, and ultimately choose to commit suicide.

Based on this problem,

1. Problem Identification

a. Bagaimana mendesain sebuah bot untuk bisa melakukan percakapan layaknya manusia?

b. Bagaimana bot dapat melakukan analisis untuk perasaan pengguna dan memberikan solusi berupa ayat Al-Qur’an?

c. Bagaimana bot dapat membantu mengurangi atau menghilangkan sebuah perasaan negatif seseorang?

d. Bagaimana integrasi antara bot, mobile aplikasi, web, dan database?

e. Bagaimana aplikasi ini dapat dimengerti dengan mudah oleh pengguna?

1. Purpose of the Study

a. Aplikasi ini digunakan sebagai media bercerita bagi pengguna untuk mendapatkan rekomendasi ayat Al-Qur’an untuk dibaca

b.

1. Limitation of the Study

a. Aplikasi ini hanya berbahasa Indonesia, jadi penggunanya adalah seseorang yang mengerti Bahasa Indonesia

b. Aplikasi ini dibuat hanya pada platform iOS.

c. Hanya orang yang bisa mengaji yang bisa membaca ayat Al-Qur’an yang direkomendasikan.

1. Benefit of the Study

a. Aplikasi didesain menyerupai manusia dan menjadi media curhat bagi pengguna

b. Aplikasi memberikan rekomendasi ayat Al-Qur’an untuk dibaca yang membuat perasaan pengguna menjadi lebih baik

1. Research Methodology

Metodologi yang digunakan dalam penelitian ini adalah Agile Software Methodology. Penulis memilih Agile, karena melihat waktu yang tersedia untuk membuat penelitian ini serta cocok untuk pembuatan sebuah apliaksi mobile. Agile Software Methodology adalah …, . The following stages in Agile Software Methodology (), are:

a.

b.

1. The Writing Structure

Sebagaimana yang telah diketahui, penelitian ini terdiri dari lima bab, dengan penjelasan setiap bab sebagai berikut:

Bab 1

Bab 2

Bab 3

Bab 4

Bab 5

1. Schedule

Waktu untuk implementasi penelitian adalah sebagai berikut

Tabel

Proses pembuatan penelitian adalah 12 minggu, yang dimulai dari 24 Februari sampai 14 Mei

# LITERATURE REVIEW

2.1 Religion

Religion is a doctrine or system that regulates the system of faith or belief and worship of Almighty God and the rules relating to the association of humans with humans, and humans with their environment [1]. In 2016, it was recorded that 62% of the world considered themselves to be religious people, 25% consider themselves unreligious, while 9% think they are atheists or have no faith [2]. And according to some estimates, in this world, there are about 4,200 different religions [3].

2.2 Muslim Religion

Islam is the last shari'ah that Allah sent down to the Prophet Muhammad bin Abdullah Sallallahu 'alaihi wasallam which is the closing of His prophets and messengers. Islam is the only true religion. Allah does not accept religion from anyone but Him. And Allah has made Islam an easy religion, there are no difficulties and difficulties in it [4].

The word Islam means "safe, secure, prosperous," that is the rule of life that can save people in the world and the hereafter, where the word comes from the word "salam". The word "salam" is found in al-Qur'an at al-An'am verse 54; surah al-A'raf verse 46; and the letter an-Nahl verse 32. In addition to the word "salam", the word Islam also comes from the word "aslama" which means surrender or conversion to Islam, which is a religion that teaches surrender to God, submits and obeys to the law of God which does his commands and stay away from the prohibition without bargaining. The word "aslama" is found in the Koran, al-Baqarah verse 112; Surah Ali Imran verses 20 and 83; the letter an-Nisa 'verse 125; and surah al-An'am verse 14 [5].

The word Islam also has a meaning that is safety or peace, which is a religion that teaches a peaceful and safe life that comes from the word "silmun". The word silmun is found in Surah al-Baqarah verse 128; and surah Muhammad verse 35 [6].

From these meanings, the word Islam is close to the word religion which means salvation, prosperity, surrender, submission, and peace.

2.3 Indonesia

Indonesia is the 4th most populous country in the world, in 2010 data were collected with a total of 238.5 million people and the population of Muslims was 207 million or 87% [7]. The International Community said that Indonesia was the largest Muslim country in the World [8]. Indonesia recognizes the diversity of religions, frees its people to embrace religion and justifies 5 religions namely Islam, Christianity, Hinduism, Buddhism, and Khong Hu Cu are the reasons for the rapid development of Islam in the country coupled with the First Precept of Pancasila that is the official, foundational philosophical theory of Indonesia which reads "Almighty Godhead" which means trust and piety in God Almighty in accordance with their respective religions and beliefs on the basis of fair and civilized humanity.

2.4 Depression

But even though the majority of Indonesian people are Muslims, the religious level in Indonesian society itself is very weak at 58%, while the non-religious figure reaches 30%, whereas religion itself is a guideline, a life guide for those who believe it, because the non-religious rate of the community is very high, indicating they do not involve religion in their lives so they often fall into a state of depression where depression is a mental disorder characterized by feelings of sadness, loss of interest or pleasure, decreased energy, feelings of guilt or inferiority, problems with sleep or appetite and lack of concentration [9] because of. WHO estimates that in 2020 depression will become the disease with the highest number of cases, which ranks second in the global disease burden, after heart disease. The prevalence of depression in Indonesia in the age group of more than 15 years reached 6.1 percent or 11,315,500 people [10], this indicates that the level of depression in Indonesia is very high.

Depression Factors: [11]

1. Physical factors, which occur due to various diseases, for example, infections, trauma, and hypothyroidism, as well as drug abuse, can cause depression.
2. Psychological factors, which occur due to anxiety, are related to health, for example, painful experiences that cause negative thoughts and emotions.
3. Environmental factors, such as life stresses, financial problems, loss of work, learning problems, a trauma in a love or marriage relationship, conflict in the family, etc.

With the development of technology in this era, it is inevitable that the presence of information technology is the cause of the emergence of various social media mobile applications whose initial purpose is to connect between family, friends and those around them to be one of the causes of depression, because they see friends or people around them have a better life, more established or more perfect than themselves to be the cause of the emergence of negative emotions that feel hopeless and helpless, and ultimately choose to commit suicide.

# IMPLEMENTATION

3.1 Analysis & Design

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