



**SYSTEM CHATBOT IN ASSISTING THE HEALTHY LIFESTYLE OF
THE COMMUNITY USING CHATGPT**



THESIS REPORT

UNIVERSITAS
Kharisma Petra Tua Sibuea
(41519010081)
MERCU BUANA

**INFORMATICS ENGINEERING
FACULTY OF COMPUTER SCIENCE
MERCUBUANA UNIVERSITY
JAKARTA
2023**

PAGE OF SELF-DECLARATION

I as the signatory:

NIM : 41519010081

Name : Kharisma Petra Tua Sibuea

Study Program : Informatics Engineering

Title of Thesis Report : System ChatBot In Assisting Healthy Lifestyle Of The
Community Using ChatGPT

I declare that this Thesis Report is my own work and is not plagiarized, and all sources, whether cited or referenced, have been properly acknowledged. If any plagiarism is found in my Thesis Report, I am prepared to face the academic sanctions applicable at Universitas Mercu Buana.

Jakarta, 4 September 2023

UNIVERSITAS
MERCU BUANA



Kharisma Petra Tua Sibuea

APPROVAL PAGE

The Thesis Report is submitted by :

NIM : 41519010081

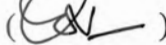
Name : Kharisma Petra Tua Sibuea

Study Program : Informatics Engineering

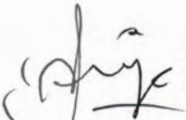
Title of Thesis Report : System ChatBot In Assisting Healthy Lifestyle Of The Community Using ChatGPT

To be defended in front of the Examination Committee as a required part of obtaining a Bachelor's degree in the Computer Science Department, Faculty of Computer Science, Universitas Mercu Buana.


Approved di Jakarta, 7 August 2023

Supervisor : Yaya Sudarya Triana, M.Kom., Ph.D ()


NIDN : 0016016404

Chairman Examiner : Dr. Afiyati, S.Si, MT ()

NIDN : 0320037002

Examiner 1 : Dr. Hadi Santoso., S.Kom, M.Kom ()

NIDN : 0225067701

Examiner 2 : Indra Ranggadara, S.Kom., MT., MMSI ()

NIDN : 0318099102

Jakarta, 4 September 2023

To Know,

Dean of Faculty

Head of Study Program

(Dr. Bambang Jokonowo, S.Si., M.T.I)

(Dr. Bagus Priambodo, ST., M.T.I)

FOREWORD

By Praising Praise to God Almighty who has bestowed His Grace and Blessings so that researchers can complete this thesis with the title " System ChatBot In Assisting Healthy Lifestyle Of The Community Using ChatGPT ", as one of the requirements to complete the Bachelor Program (S1) Informatics Engineering, Faculty of Computer Science, Mercubuana University. The researcher realizes that this thesis could not have been completed without the support, assistance, guidance, and advice from various parties during the preparation of this thesis. In this opportunity, the writer would like to express his sincere thanks to:

1. Thank you to Professor Dr. Ir. Andi Adriansyah, M.Eng for his role as the Rector of Mercu Buana University.
2. Thank you to Dr. Bambang Jokonowo, S.Si., M.T.I for his role as the dean of the Faculty of Computer Science at Mercu Buana University.
3. Thank you to Mrs. Inna Sabily Karima, S.Kom., M.Kom. for her role as the head of the Informatics Engineering program at Mercu Buana University.
4. Yaya Sudarya Triana, M. Kom., Ph.D. As Dean of the Faculty of Computer Science, And As a Thesis Advisor for all the guidance, directions and suggestions given to Researchers.
5. Thank you to Hadi Santoso, PhD, S.Kom., M.Kom., Dr. Afiyati, S.Si., MT, and Indra Ranggadara, S.Kom., M.Kom. as the examining lecturers in my final project presentation.
6. Anis Cherid, SE, MTI As a Lecturer who has assisted researchers in participating in and completing studies at the Faculty of Computer Science, Mercubuana University.
7. All Lecturers of the Faculty of Computer Science, Mercubuana University who have provided invaluable knowledge during the Researcher's education at Mercubuana University

8. The researcher's parents who always provide prayers, advice, and extraordinary support to the researcher.
9. To Ragil Putri Wardhani who always provides support, prayers, who accompany the researcher from the beginning of the lecture until now.

In writing this thesis, there are still many shortcomings and mistakes, therefore all constructive criticism and suggestions will improve the writing of this thesis and be useful for researchers and readers.

Jakarta, 7 August 2022



Kharisma Petra Tua Sibuea (41519010081)

UNIVERSITAS
MERCU BUANA

PAGE OF STATEMENT OF APPROVAL FOR THE PUBLICATION OF FINAL PROJECT FOR ACADEMIC PURPOSES

As a member of the academic community of Universitas Mercu Buana, I, the undersigned :

Name : Kharisma Petra Tua Sibuea

NIM : 41519010081

Studi Program : Informatics Engineering

Title of Thesis Report : System ChatBot In Assisting Healthy Lifestyle Of The Community Using ChatGPT.

For the advancement of knowledge, I hereby give permission and consent to provide to Universitas Mercu Buana **Non-Exclusive Royalty-Free Right** For my scientific work entitled above, along with the accompanying materials (if necessary), I hereby grant permission and consent to provide to Universitas Mercu Buana

With this Non-Exclusive Royalty-Free License, Universitas Mercu Buana has the right to store, convert/format, manage in the form of a database, maintain, and publish my Thesis Report while still acknowledging my name as the author/creator and as the Copyright owner.

Jakarta, 4 September 2023

Stated By,



Kharisma Petra Tua Sibuea

TABLE OF CONTENT

TITLE PAGE	i
PAGE OF SELF-DECLARATION	ii
APPROVAL PAGE	iii
FOREWORD	iv
PAGE OF STATEMENT OF APPROVAL FOR THE PUBLICATION OF FINAL PROJECT FOR ACADEMIC PURPOSES	vi
ABSTRAK	vii
TABLE OF CONTENT	viii
TABLE OF PICTURE	x
CHAPTER I INTRODUCTION	1
1.1 Background.....	1
1.2 Problem Statement.....	5
1.3 Scope Research.....	5
1.4 Research Purpose.....	5
1.5 Benefit Of Research.....	5
CHAPTER II THEORITICAL STUDY	7
2.1 Telegram.....	7
2.2 ChatBot 8	
2.3 ChatGPT.....	9
2.4 Artificial Intelligence	9
2.5 Critical Review.....	11
2.6 Summarize.....	16
2.7 Comparison	21
CHAPTER III RESEARCH METODOLOGY	22
3.1 ChatBot Architecture.....	22
3.2 ChatBot Application Method	23
3.3 Stages Of Research.....	23
CHAPTER IV RESULT AND DISCUSSION	29
4.1 System Analysis	29
4.2 Use case Diagram	29

4.3 Research Result	31
4.4 Discussion	36
CHAPTER V CONCLUSION AND SUGGESTION	38
5.1 Conclusion	38
5.2 Suggestion	38
BIBLIOGRAPHY	39



TABLE OF PICTURE

Gambar 1 1 The Data On the Spread Of Covid-19 On A National Scale.....	1
Gambar 1 2 Skala Internasional International Scale Covid-19 Case Distribution Data.....	2
Gambar 1 3 2020 The Data Technology Penetration in Indonesia For The Year 2020	3
Gambar 1 4 Data on the Number of Telegram Application Users in 2021.....	8
Gambar 1 5 ChatBot Architecture.....	22
Gambar 1 6 OpenAi Library Instalation Using CMD.....	24
Gambar 1 7 TelegramBot Library Instalation Using CMD	24
Gambar 1 8 Input Library OpenAi and TelegramBot On Visual Studio Code.....	25
Gambar 1 9 Create New Secret Key In OpenAi	25
Gambar 1 10 Input Secret Key Into Visual Studio Code	25
Gambar 1 11 Konfiguration TelegramBot Account with BotFather	26
Gambar 1 12 Input TelegramBot Token into Visual Studio Code.....	26
Gambar 1 13 Input Function and Parameter Progress in Visual Studio Code.....	27
Gambar 1 14 Code Welcome Message and Recieving Message to ChatBot Code	27
Gambar 1 15 ChatBot Response into User Code	28
Gambar 1 16 Use Case Diagram.....	30
Gambar 1 17 Entering Message Room with TelegramBot.....	32
Gambar 1 18 TelegramBot Welcome Message Display	33
Gambar 1 19 Demonstration Conversation Between User and TelegramBot	34
Gambar 1 20 Demonstration Conversation Between User and TelegramBot	35
Gambar 1 21 Demonstrasi Percakapan Ketiga Antara User dan Telegram Bot ...	36