



Vocal Input to Text Output: A User-Friendly Desktop Application

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ABSTRACT

The creation of a desktop voice-to-text program that facilitates the conversion of spoken speech into written text is the main goal of this final project. The system's dual support for English and Indonesian fills a frequent flaw in many current solutions that ignore multilingual functionality. The application provides a straightforward and easy-to-use solution for anyone who require hands-free typing for accessibility, multitasking, or convenience, particularly for people with disabilities..

The project employs a Python-based desktop interface created with Tkinter in conjunction with Google's Speech Recognition API to do this. The way the system operates is by using a microphone to record audio, processing it in real time, and then turning the voice into text. The application allows users to read the transcription, save the text to a file, and choose their favorite language.

According to the results, the program is a workable solution for hands-free text input because it can effectively transcribe speech for both supported languages. The gadget offers users a dependable and convenient method of typing without using their hands, even though ambient noise may compromise its accuracy and it necessitates an internet connection. For now, the system fulfills its promise to increase user convenience and accessibility, while future enhancements might include noise reduction, offline support, and multilingual support.

TABLE OF CONTENTS

ABSTRACT.....	i
DEDICATION.....	ii
ACKNOWLEDGEMENT	iii
TABLE OF CONTENTS.....	iv
LIST OF TABLES.....	vi
LIST OF FIGURES	vii
1 CHAPTER I INTRODUCTION.....	1
1.1 Background	1
1.2 Objectives.....	1
1.3 Scope and Limitations.....	2
1.4 Project Methodology	2
1.5 Final Project Outline	3
2 CHAPTER II LITERATURE REVIEW	5
2.1 Overview of Voice Recognition Technologies	5
2.2 Google Speech Recognition API.....	5
2.3 Challenges with Indonesian Language Recognition	6
2.4 Applications of Speech-to-Text Technology	6
2.5 Summary of Current Research	6
3 CHAPTER III SYSTEM ANALYSIS.....	7
3.1 System Overview	7
3.2 Function Analysis.....	8
3.3 Use Case Diagram.....	8
3.4 Use Case Narrative.....	9
3.5 Swim Lane Diagram.....	14

3.5.1	Swim Lane Diagram for Main Display.....	15
3.6	Hardware and Software Requirement	16
3.6.1	Hardware Requirement	16
3.6.2	Software Requirement	16
4	CHAPTER IV SYSTEM DESIGN.....	18
4.1	User Interface Design.....	18
4.1.1	Main Display.....	18
4.2	Class Diagram	22
5	CHAPTER V SYSTEM IMPLEMENTATION.....	24
5.1	User Interface	24
5.1.1	Main Display.....	24
5.2	Application Details.....	25
5.2.1	Main Menu (User Interface Setup)	25
5.2.2	Speech Recognition Functionality	26
5.2.3	Saving Transcribed Text.....	26
5.2.4	Application Workflow	27
6	CHAPTER VI SYSTEM TESTING.....	28
6.1	Testing Environment.....	28
6.1.1	Application Interface Testing Scenario	29
6.2	Testing Summary	29
7	CHAPTER VII CONCLUSION AND FUTURE WORKS	31
7.1	Conclusion.....	31
7.2	Future Works.....	31
	REFERENCES	33

LIST OF TABLES

Table 3.1 Table of Function Description	8
Table 3.2 Use Case Narrative for “Access Main Menu Page” Use Case	10
Table 4.1 Label Description from Figure 4.1	19

LIST OF FIGURES

Figure 3.1 Use Case Diagram	9
Figure 3.2 Swim Lane Diagram of Main Menu Page	15