Bahria University
Discovering Knowledge

FINAL YAER PROJECT REPORT

VOICE BASED LIBRARY BOOK AVAILABILITY & LOCATION FINDER ON INTERNET

By

Muhammad Shabber Bilal (39121)
Rao Muhammad Faheem (39130)
Muhammad Umer Farooq (39124)
Muhammad Maaz Iqbal (40189)

Supervised by

(Saba Akhter & Sameena Javaid)

Bahria University (Karachi Campus)

2018

ACKNOWLEDGEMENTS

First of all, we would like to Thanks ALMIGHTY ALLAH who gave us courage to start & finish this project. We would also like to thank everyone who had contributed to the successful completion of this project. We here would like to express our gratitude to our previous project supervisor, Ms. SABA AKHTER for her invaluable advice and guidance. Also we would also like to express our gratitude to our present supervisor Ms. Sameena Javaid for her invaluable advice, guidance and her enormous patience throughout the development of this project.

In addition, we would also like to express our special gratitude to our loving Parents and Friends who had helped and given us encouragement.

VOICE BASED LIBRARY BOOK AVAILABILITY & LOCATION FINDER ON INTERNET

ABSTRACT

This project has a main target is to make/build a voice-based application which helps students to find book and is accessible or not in the Library. It will help Students to get or find any books that it will exist in library or not by searching through voice and to find the exact location of the book in the library.

It also helps disabled person who's cannot utilize hands properly, by speech recognition it is easy for them to find the books.

TABLE OF CONTENTS

DECLARATION ii

APPROVAL FOR SUBMISSION iii

ACKNOWLEDGEMENTS vi

ABSTRACT Error! Bookmark not defined.

TABLE OF CONTENTS Error! Bookmark not defined.

LIST OF TABLES ix

LIST OF FIGURES x

LIST OF APPENDICES xi

CHAPTER

1 INTRODUCTION

122

1.1 Background 122

1.2 Problem Statement 133

1.3 Objectives and Aims 13

1.4 Scope of Project 13

2 LITERATURE REVIEW **14**

2.1 An Overview of Speech Recognition 14

2.2 History 14

2.3 Types of Speech Recognition 15

2.3.1 Isolated Speech 15

2.3.2 Connected Speech 15

2.3.3 Continuous Speech 15

2.3.4 Spontaneous Speech 15

2.4 Speech Recognition Process 16

2.5 Uses of Speech Recognition 16

2.6 Applications 17

2.6.1 From Medical perspective 17

	2.6.2	From Military perspective	17
	2.6.3	From Educational perspective	17
2.7		Speech Recognition Weakness & Flaws	17
2.8		Future of Speech Recognition	18
3	**DESIGN & METHODOLOGY**		**19**
3.1		Fundamentals to Speech Recognition	19
	3.1.1	Utterances	19
	3.1.2	Pronunciation	19
	3.1.3	Grammar	19
	3.1.4	Accuracy	19
	3.1.5	Vocabularies	19
	3.1.6	Training	19
3.2		Methodology & API	20
3.3		Database Design	21
	3.3.1	Relational Database Design (ERD)	21
4	**IMPLEMENTATION**		**22**
4.1		Systems Requirement	22
4.2		Interface	22
4.3		Admin Panel	25
4.4		Server Detail	30
4.5		Installation in Server	30
4.6		Working	30
5	**RESULTS & DISCUSSION**		**31**
5.1		Initial Tests, Results & Discussion	31
6	**CONCLUSION**		**32**
6.1		Advantages	32
6.2		Dis Advantages	32
6.3		Future Enhancement	32
6.4		Summary	32
REFERENCES			**36**
APPENDICES			**38**