MADRAS INSTITUTE OF TECHNOLOGY
ANNA UNIVERSITY CHENNAI
CHENNAI - 600 044

DEPARTMENT OF INFORMATION TECHNOLOGY

IT5613 - SOCIALLY RELEVANT PROJECT LABORATORY

Under the guidance of Dr.Geetha Ramani

Batch No :02

Team No: 05

Title: BraillePulse

S.NO	NAME	ROLL NUMBER
1	HEMNATH N M	2021506026
2	DHARSHAN S	2021506018
3	ARUN N	2021506013
4	ABINAYA S	2021506002

TABLE OF CONTENTS

ABSTRACT…… 1

CHAPTER 1……... 2

INTRODUCTION

- **1.1 ABOUT THE DOMAIN**
- **1.2 ABOUT THE PROJECT**
- **1.3 ORGANISATION OF THE REPORT**

CHAPTER 2…… 4

LITERATURE SURVEY

- **2.1 WEBSITES REFERRED**
- **2.2 JOURNAL PAPER REFERRED**
- **2.3 INSIGHTS FROM JOURNALS**
- **2.4 STORYLINE**

CHAPTER 3…… 7

SYSTEM DESIGN

- **3.1 DESIGN MODELS**
  - **3.1.1 SYSTEM ARCHITECTURE DIAGRAM**
  - **3.1.2 DESIGN DIAGRAMS**
    - **3.1.2.1 DATA FLOW DIAGRAM**
    - **3.1.2.2 USE CASE DIAGRAM**
    - **3.1.2.3 ACTIVITY DIAGRAM**
    - **3.1.2.4 SEQUENCE DIAGRAM**
    - **3.1.2.5 DATA DESIGN DIAGRAM**
- **3.2 MODULE DESCRIPTION**

CHAPTER 4…….. 19

- **4.1 DETAILLED DESIGN**
  - **4.1.1 USER AUTHENTICATION WORKING**
  - **4.1.2 TEXT TO BRAILLE COVERSION MODULE**
  - **4.1.3 BRAILLE TO TEXT CONVERSION MODULE**
  - **4.1.4 BRAILLE TO AUDIO CONVERSION MODULE**

4.1.5 BRAILLE TO VIDEO CONVERSION MODULE

CHAPTER 5……. 23

IMPLEMENTATION AND RESULTS

5.1 HARDWARE AND SOFTWARE REQUIREMENTS

5.2 RESULTS AND SCREENSHOTS

5.2.1 AUTHENTICATION PAGE

5.2.2 INDEX PAGE

5.2.3 EXPLORE PAGE

5.2.4 DATASET PAGE

5.2.5 MAP

5.2.6 TEXT TO BRAILLE CONVERTER

5.2.7 BRAILLE TO TEXT CONVERTER

5.2.8 BRAILLE TO AUDIO CONVETER

5.2.9 CLASSIFICATION

5.2.10 INTEGRATION OF CNN MODEL WITH WEBPAGE

5.2.11 CLUSTERING

CHAPTER 6……..52

CONCLUSION

6.1 FUTURE ENHANCEMENTS

REFERENCES……53