VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"Jnana Sangama" Belagavi – 590 010

PROJECT REPORT ON

"SMART TEXT READER FOR BLIND PEOPLE"

Submitted in partial fulfillment of the requirements for the award of degree

BACHELOR OF ENGINEERING
IN
ELECTRONICS & COMMUNICATION ENGINEERING

Submitted By

NAME	USN
AISHWARYA SHETTI	4AL12EC002
BHARATH S PATIL	4AL13EC403
HAVALE POOJA UDAY	4AL13EC404
VINODAKUMAR I N	4AL13EC421

Under the Guidance of
Mrs. Sahana K Adyanthaya
Assistant Professor
Department of E&C Engineering

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY

MOODBIDRI – 574 225.

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ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY

MOODBIDRI – 574 225

(Affiliated to VTU, **BELAGAVI**)

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

CERTIFICATE

Certified that the project work entitled **"SMART TEXT READER FOR BLIND PEOPLE"** *is a bonafide work carried out by*

AISHVARYA SHETTI	**4AL12EC002**
BHARATH S PATIL	**4AL13EC403**
HAVALE POOJA UDAY	**4AL13EC404**
VINODAKUMAR I N	**4AL13EC421**

in partial fulfillment for the award of **BACHELOR OF ENGINEERING** in **ELECTRONICS & COMMUNICATION ENGINEERING** of the **VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI** during the year 2016–2017. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the Bachelor of Engineering Degree.

Sahana	D.V. 13/05/17	
Signature of the Guide	**Signature of the H.O.D**	**Signature of the Principal**
Mrs. Sahana K Adyanthay	**Dr. D V Manjunatha**	**Dr. Peter Fernandes**

H.O.D.
Dept. Of Electronics & Communication
Alva's Institute of Engg. & Technology
Mijar, MOODBIDRI 574 225

EXTERNAL VIVA

Name of the Examiners	Signature with date
1.....	.....
2.....	.....

ABSTRACT

Disability is the state of a person in which one has to depend on others for their own needs. Visual impairment is one of the disabilities of a human being. To date numerous methods have been proposed to enhance the life style of visually impaired and blind people. Still purchasing products in the supermarket without others support is tricky for them. Lot of electronic products are introduced for visually impaired but all having some sort of drawbacks such as complexity in operation, need of more practice, higher cost, expensive design methodology and installation, non optimized data, more time consuming and tough maintenance. By considering these issues, if the embedded product is developed for visually impaired and blind people, it will be really worthy. The identification systems are already available for them.

At present in the case of shopping there is no such embedded product. Shopping is one of the interesting things for every human. But this simple task cannot be easily achieved by the blind. They need others help for satisfying their own requirements. RFID is the simplest and efficient technology which can be used for object detection and identification in many applications such as supply chain management, objects tracking, antitheft applications, logistics, warehousing etc. This can be used effectively for blind at the time of shopping and greatly improves the life style of them.

The proposed system provides the guidance for them to identify and purchase their products in the supermarket. Radio Frequency Identification (RFID) technology is implemented to identify the products. The audio instructions will assist them inside the supermarket. The ultimate aim of this system is to eliminate others support for visually impaired people in shopping and provide them a convenient and sophisticated environment. On implementing this system, it facilitates the blind people shopping, save the customer's time and promotes business sales.