

Date: \_\_\_\_\_

Project title: Communication System for Deaf, Dumb and Blind People

## Team Leader Detail:

Name	Enroll.no.	M. no.	Email	Branch and Sem.
Modi Darshil.L	196260311006	8780215685	darshilmodi0807@gmail.com	E.C 5 <sup>th</sup> sem

## Team members Detail:

Name	Enroll.no.	M. no.	Email	Branch and Sem.
Dabhi Ashwin.U	196260311002	7984615223	ashwindabhi888@gmail.com	E.C 5 <sup>th</sup> sem
Damor Bhargav	196260311503	7984808433	damorbhargav45@gmail.com	E.C 5 <sup>th</sup> sem
Solanki Nirav.N	196260311505	9726745691	solankinirav9725@gmail.com	E.C 5 <sup>th</sup> sem

## Mentor Detail:

Name	M. no.	Email
Milav J Dabgar	8128576285	milav.dabgar@gmail.com
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દા. ત.: પ્રોબ્લેમ: પાણીની ટાંકીનું પાણી વારંવાર ઉભરાવવું      સોલ્યુશન : ઓટોમેટિક વોટર લેવલ ઇન્ડિકેટર

1. પ્રોબ્લેમ જે તમે સોલ્વ કરવા માંગો છો.

deaf and dumb and blind people other people communication problem

2. તમારો આઈડિયા (સોલ્યુશન )

Communication System for Deaf, Dumb and Blind People

3. તમારા આઈડિયા માં ઇનોવાટિવે શ છે?

We propose a system which helps normal and deaf dumb people to effectively communicate with each other

4. તમારા યુઝર/ કસ્ટમર કોણ હશે ?

Deaf, Dumb and Blind People

5. તમારા આઈડિયા/ સોલ્યુશન /પ્રોજેક્ટ નો બીજો શું ઉપયોગ થઈ શકે

It can be used to communicate as well as control home appliances

6. તમારો આઈડસ્યા/સોલ્યુશન વવષે વધૂ માટહતી આપો . (કેવીરીતે કામ કરશે, ફલોચાટટ દોરી શકો છો.) (જરૂર જણાય તો અલગથી પેજ લગડી શકો છો.)

We propose a system which helps normal and deaf dumb people to effectively communicate with each other. In resolving these difficulties with visually and vocally impaired people, we have used a tiny credit card size computer named Raspberry Pi. We provide the solution for blind deaf and dumb people by using this device. For blind people, the image is captured using Logitech camera which is converted into text using Tesseract OCR and the resulted text is converted into speech using espeak which is spelled out by speaker and the text is also displayed.

When the dumb people communicating with normal people, the text written by dumb is spelled out by the speaker which can be understandable by normal people. Dumb people, can also use hand gesture to communicate with normal people. For deaf people the speech is converted into text by using a website called speechtexter.com. The rest of the paper is organized as follows: Section II deals with an existing system, Section III and IV deals with hardware and software requirements and section V deals with design and implementation

7. આઈડસ્યા ને રજૂ કરતો સ્કેચ (જરૂર જણાય તો અલગથી પેજ લગડી શકો છો.)

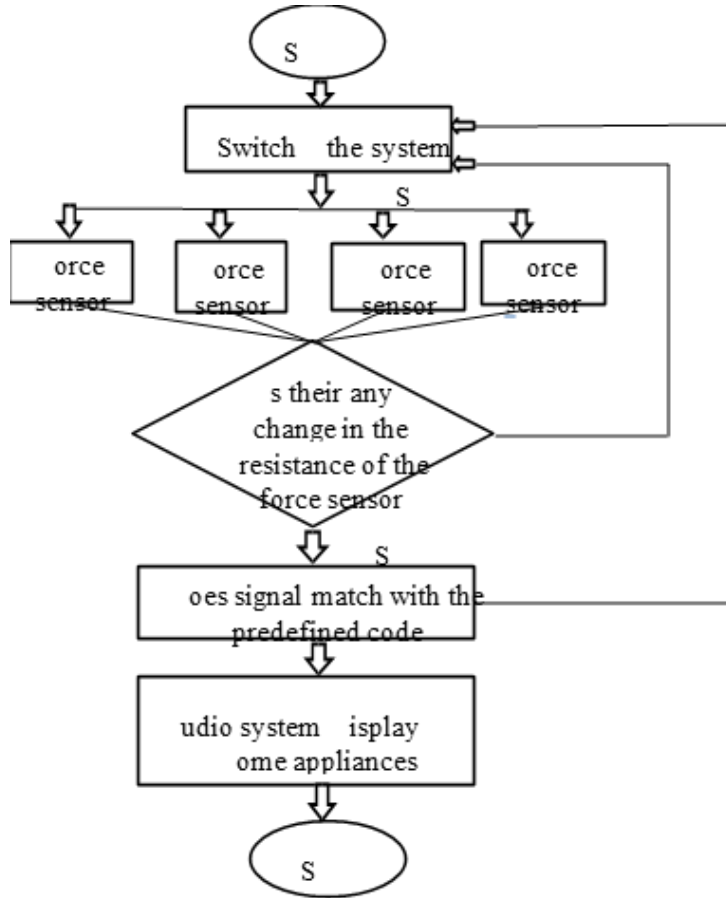


Fig 3.3 Flow Chart of Proposed System

8. તમે જે સોલ્યુશન બનાવવા માંગો છો તેના જેવું પહેલા કોઈએ બનાવેલ હોય તો તેની માહિતી (તેના રિલેટેડ પ્રોજેક્ટ ઇન્ટરનેટ પરથી )

<https://matlabprojects.org/novel-approach-for-communication-among-blind-deaf-and-dumb-people/>

9. આ પ્રોજેક્ટ /આઈટડયા બનાવવા તમારે કયા કમ્પોનન્ટ જોઈશે ?(દરેક કમ્પોનન્ટ નો ભાવ, સ્પેસિટફિકેશન લખવા )

- 1- Raspberry pi4 -7000
- 2- Voice module -2000
- 3- Flex sensor – 1000
- 4- Arduino uno -1000
- 5- Force sensor -1200
- 6- Recording module -850
- 7- Adxl333 mems accelerometer -4000
- 8- Gloves -1000
- 9- Extra -7000

10. આશરે ઉપરના કમ્પોનેન્ટ પ્રમાણે કેટલો ખચટ થશે?

25,000

Team leader and members sign:


Mentor Sign


## Department level project approval for SSIP Grant

**Application no.:** (GPP/Dept. name/year/number)

**Department:** EC Academic year: 2021/2022

**Date of Presentation:** Time:

**Project Title:** communication system for deaf,dumb and blind people

**End user:** deaf , dumb and blind

Innovator Team Leader:

Sr. No	Name	Enroll. no	Semester	M. No	Email
	Modi Darshil.L	196260311006	5 <sup>th</sup> sem	8780215685	darshilmodi0807@gmail.com

Innovator Team members:

Sr. No	Name	Enroll. no	Semester	M. No	Email
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Amount will be released in 4 installments to innovator team by submission of utilization certificate Four installment, will release by sequence of completion of four given task by committee

Task 1 for installment 1:

Approx. amount:\_\_\_\_10,000\_\_\_\_\_

Task 2 for installment 2:

Approx. amount:\_\_\_\_5,000\_\_\_\_\_

Task 3 for installment 3:

Approx. amount:\_\_\_\_6,000\_\_\_\_\_

Task 4 for installment 4:

Approx. amount:\_\_\_\_4,000\_\_\_\_\_

Total amount recommended: \_\_\_\_25,000\_\_\_\_\_

	Name	Approved/ Not approved	Special Remarks	Sign
Mentor-1				
Mentor-2				
Departmental SSIP coordinator				
Head of Department				

Department Seal

**Institute level project approval for SSIP Grant****Application no.:****Department:** E.C

Academic year:2021/2022

**Date of Presentation:**

Time:

**Project Title:** communication system for deaf,dumb and blind people**End user:** deaf , dumb and blind**Innovator Team Leader:**

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	Name	Approved/ Not approved	Remarks	Sign
Institute Head				
Industrial Expert 1				
Industrial Expert 2				
Academic Expert 1				
Academic Expert 2				
Finance Expert				
Startup ecosystem Expert				
SSIP Coordinator				

Institute Seal