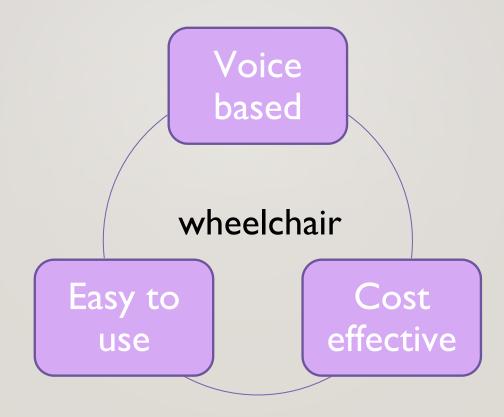


## **ABSTRACT:**

- Smart wheel chair aims at
  - Helping completely paralysed people
  - Using voice as user friendly interface
  - Ensuring independent life to user
  - Cost effective alternate



# **OBJECTIVE**



## **COMPONENTS USED:**

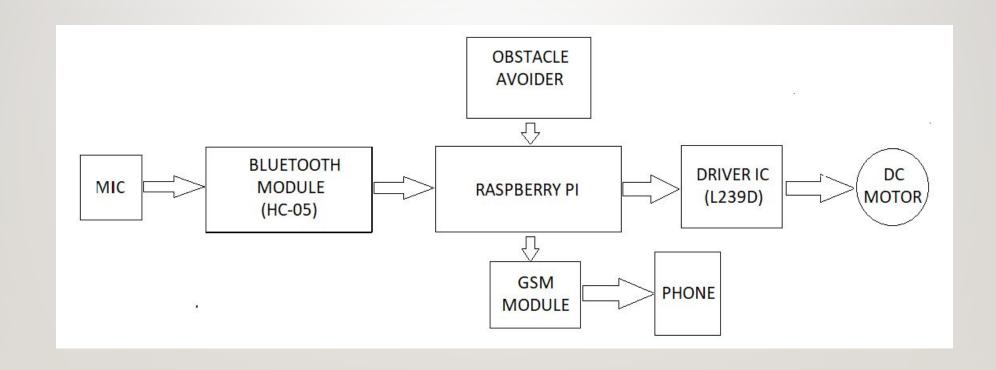
- Raspberry pi3
- Battery
- Ultrasonic sensor(HC-SR04)
- DC motor driver(L239D)
- DC motor



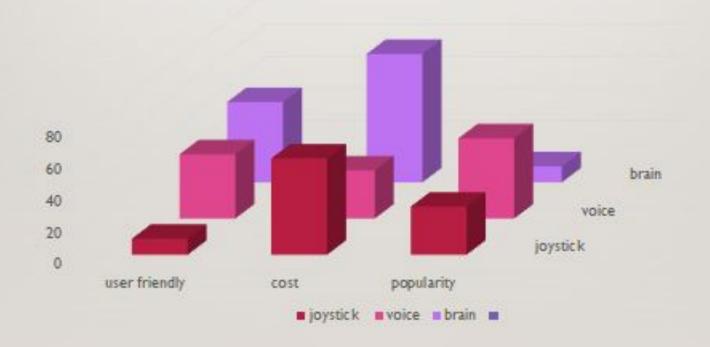
### PROPOSED METHODOLOGY:

- Commands like left, right, back, front and stop are said by user.
- The commands are send to bluetooth module and processed by raspberry pi3
- It controls the wheels based on commands
- Ultrasonic sensor is used to avoid obstacle on the way
- The location of the user is continuously tracked and supports during emergency

## **BLOCK DIAGRAM:**



# COMPARISON



## **ADVANTAGES:**

- Single command usage instead of repeated commands like go to kitchen
- Sounds instead of commands can be used for vocal cord affected users
- cost effective compared to other methods
- Live location tracking
- Highly helpful for completely paralysed people

### REFERENCES

- Smita U upase, A. K. joshi, voice operated wheelchair for physically challenged people International Journal of Advances in Science Engineering and Technology, Vol-4, Iss-3, Spl. Issue-1 Aug.-2016
- Tatigutla akhila I, Badavath mohanrao, Wheel Chair Robot using Raspberry Pi vol.09,issue.09, august-2017, pages:1415-1419.