



Name Of Cap

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Problem Statement

- For a Visually Impaired person, Life is very tough. He faces a lot of problems in their daily life. He has a problem moving through roads, reading books, etc.
- We are looking forward to providing Virtual Eyes and Companion for every visually impaired people.
- With the help of our project, people will be independent and that will also boost their morale and end their disabilities

STATISTICS

- According to WHO Globally, the number of people of all ages visually impaired is estimated to be 60 million and will be 100 million in the next decade.
- In every 1 million --people 6 people are blind,35 people have low vision,40 people are visually impaired.
- (Other facts are present in the form of a graph)
- All the facts are taken from
(<https://www.who.int/blindness/GLOBALDATAFINALforweb.pdf?ua=1%3E>)



Our Solution To The Problem

- Through the help of AI, our team decided to work on a project which can become virtual eyes for a visually impaired person and also a companion for him.
- So we come up with:

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Hardware Info

Raspberry Pi 3

- This motherboard from Raspberry Pi features 4 USB ports, an HDMI port and a 3.5mm audio jack, among other features. It is built on the latest broadcom 2837 ARMv8 64bit processor. The motherboard also features a micro SD card slot. The micro SD card slot follows a push-pull technique. Install this motherboard in your computer for a fast and responsive system.



Spark Fun Electret Microphone

- This small breakout board couples an Electret microphone (100Hz--10kHz) with a 60x mic preamplifier to amplify the sounds of voice, claps, door knocks or any sounds loud enough to be picked up by a microcontroller's analog-to-digital converter. Each breakout comes fully assembled and works from 2.7V up to 5.5V.



Raspberry Pi 5MP Camera Module with Cable

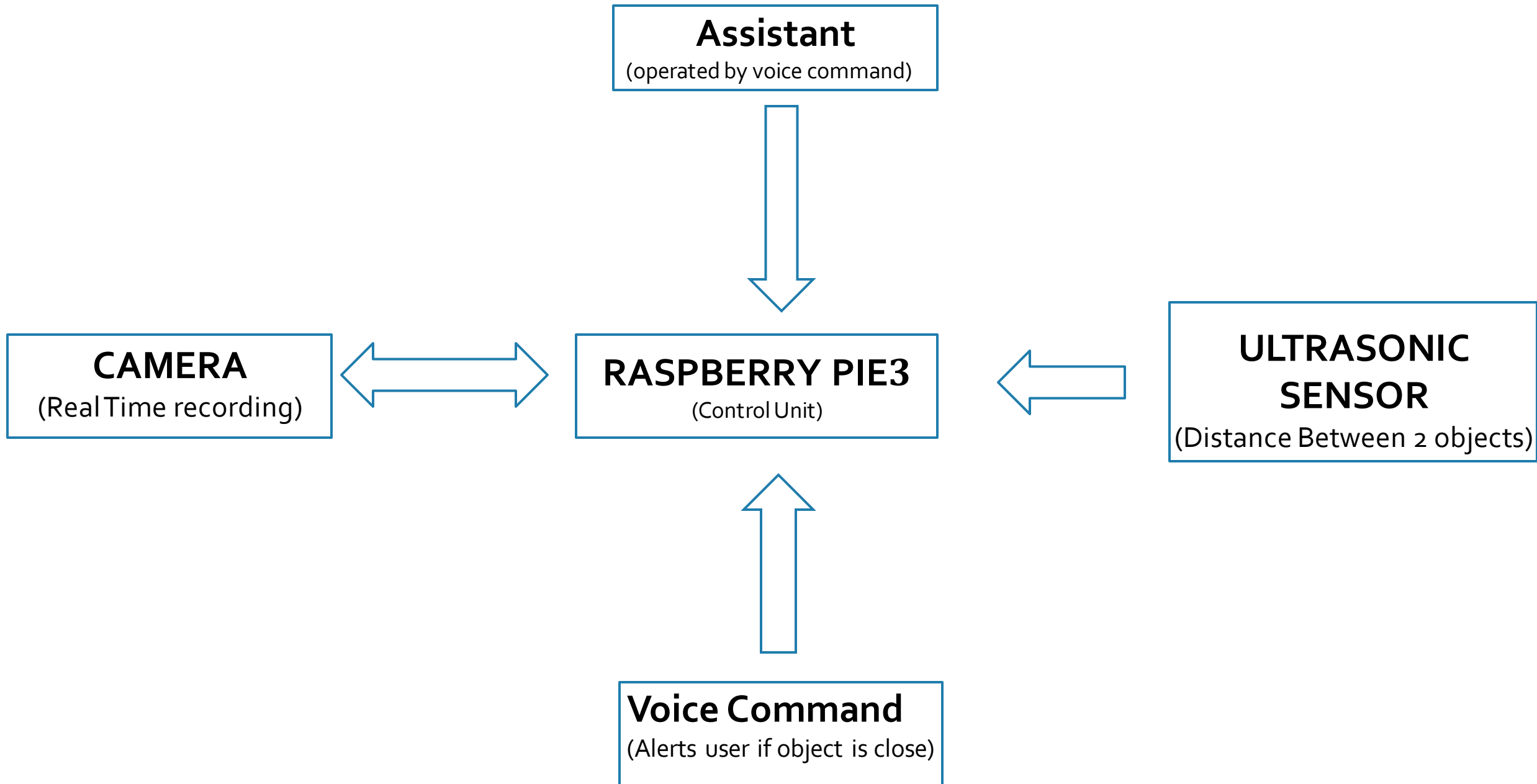
- The 5MP Raspberry Pi 3 Model B Camera Module with Cable equips flexible cable for attaching with Raspberry Pi 3 Model B. The 5MP camera module is perfect for small Raspberry Pi projects which have very little space allowance just boot up the latest version of Raspbian and you are good to go!!!



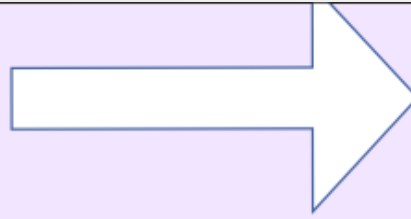
Neo 6M

- The NEO-6 module series brings the high performance of the u-blox 6 position engine to the miniature NEO form factor. u-blox 6 has been designed with low power consumption and low costs in mind. Intelligent power management is a break-through for low-power applications. These receivers combine a high level of integration capability with flexible connectivity options in a small package. This makes them perfectly suited for mass-market end products with strict size and cost requirements. The DDC interface provides connectivity and enables synergies with u-blox LEON and LISA wireless modules.

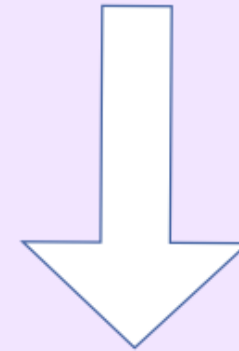




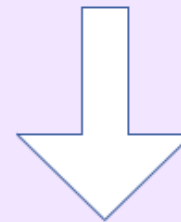
HEART RATE SENSOR



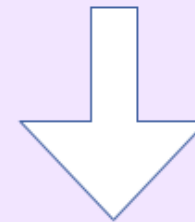
RASPBERRY PI3



ALERT
(VOICE COMMAND)



E-Mail
(Sent to Hospital Immediately)



BREAK



FUTURE ADD-ONS

- **Pre-Posseing**
- **Natural Language Processing**

COSTING

S.NO	MANE	PRICE
1.	RASPBERRY PI 5MP CAMERA MODULE WITH CABLE	395
2.	RASPBERRY PI3	3000
3.	SPARKFUN ELECTRET MICROPHONE AUDIO	150
4.	RASPBERRY PI CAMERA	1000
5.	STICK	300
6.	NEO 6M	800
7.	HEARTBEAT SENSOR	200



THANK YOU