1. Components
2. Hardware

* Nodemcu
* Power cable
* Distance sensor
* Goggles
* Wires and bread board
* Buzzer

1. Software

* Arduino ide

1. Hardware specifications

* Nodemcu(ESP8266 NodeMCU CP2102 Board)

Data sheet <https://components101.com/sites/default/files/component_datasheet/ESP8266-NodeMCU-Datasheet.pdf>

For simplified information

<https://components101.com/development-boards/nodemcu-esp8266-pinout-features-and-datasheet>

* Distance Sensor(ultrasonic sensor)

Data sheet <https://components101.com/sites/default/files/component_datasheet/HCSR04%20Datasheet.pdf>

For simplified information

<https://components101.com/sensors/ultrasonic-sensor-working-pinout-datasheet>

1. Software specifications

* Arduino ide

The **Arduino Integrated Development Environment** - or Arduino Software (IDE) - contains a text editor for writing code, a message area, a text console, a toolbar with buttons for common functions and a series of menus. It connects to the Arduino hardware to upload programs and communicate with them.

Programs written using Arduino Software (IDE) are called **sketches**. These sketches are written in the text editor and are saved with the file extension .ino. The editor has features for cutting/pasting and for searching/replacing text. The message area gives feedback while saving and exporting and also displays errors. The console displays text output by the Arduino Software (IDE), including complete error messages and other information. The bottom righthand corner of the window displays the configured board and serial port. The toolbar buttons allow you to verify and upload programs, create, open, and save sketches, and open the serial monitor.

FOR MORE INFORMATION

<https://docs.arduino.cc/software/ide-v1/tutorials/arduino-ide-v1-basics>

1. Working principle

In this protocol sensor find out the object from distance, if it

found with in300 miter then it give sound and aware the user.

Also if it more nearer it give more sound effect.

<https://www.researchgate.net/publication/321288844_Low_cost_ultrasonic_smart_glasses_for_blind>

COPY THE PROPOSED PROTOCOL PART

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