Report on

‘Virtual Doctor’

By

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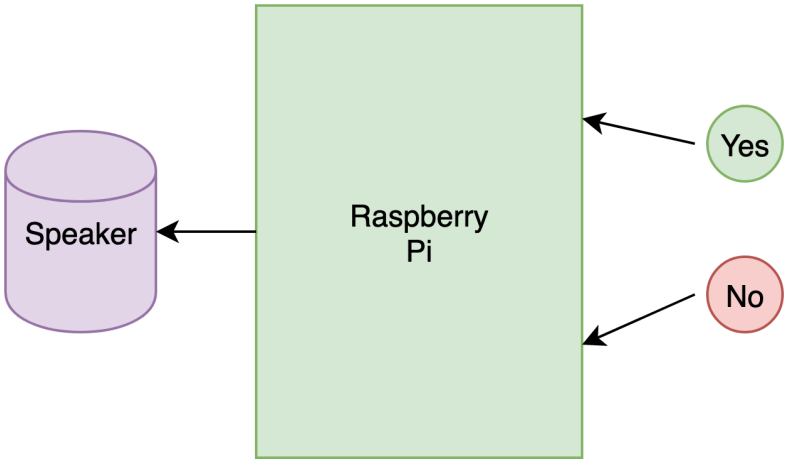
Objective:

To construct a virtual doctor device that can provide medicine for minor problems.

Description:

This device is a basic implementation of the project virtual doctor. A study says 'Eight out of 10 villages clinics have no specialist doctors'. This is the case in many villages or remote areas where there is no hospital or any medical support is available. So this project can be made useful for such villages. It can also be useful for elderly people who should have a regular doctor checkup, where this device can be implemented with a camera so that the patient can talk to the doctor if there is any problem or for a regular checkup.

Block Diagram:



System Requirement Specification

Hardware Requirement:

- 2 x Button switch
- Speaker
- Raspberry Pi

- WebCam (Optional)

Software Requirement:

- Python
    - Library: 1. time
    - 2. os
    - 3. RPi.GPIO as GPIO

Working Principle:

When the program runs, we get a speech output from the speaker saying ‘Do you have a cold’. There will be two switches one for yes and another no. Then depending on the input from the switch, the virtual doctor provides the medicine for our problems. The description of the medicine gives a text message and a voice output.

Circuit Connections:

- Connection of Raspberry pi to the speaker:
    - Connect the speaker to Raspberry pi using a sound card or 3.5mm headphone jack.

Result:

The result of the project virtual doctor is verified and it satisfied all my requirements without any exceptions.