AI smart mirror

Required Component:

Serial	Component Name	Link
01	NodeMCU esp8266	https://www.alibaba.com/product-detail/Nodemcu-Esp8266-Nodemcu-Lua-Wifi-Internet_60777748735.html?spm=a2700.7735675.normal_offer.d_image.73204322yeEpTK&s=p
02	PIR motion Sensor	https://www.amazon.com/Adafruit-LK-918O-SANV-FBACA-PIR-Motion-Sensor/dp/B00IOZTAC6
03	Voice Recognition Module	https://www.amazon.com/Voice-Recognition-Module-Compatible-Control/dp/B07VY1LJRK
04	Breadboard	https://www.amazon.com/830-Point-Solderless-Breadboard-Prototyping-Classroom/dp/B00B88630E/ref=pd_bxgy_img_sccl_1/143-3045616-9955963?pd_rd_w=acsyI&content-id=amzn1.sym.7757a8b5-874e-4a67-9d85-54ed32f01737&pf_rd_p=7757a8b5-874e-4a67-9d85-54ed32f01737&pf_rd_r=YM6CVZ0R0D0FENQG0M7K&pd_rd_wg=seexn&pd_rd_r=343340c4-a3f5-4733-928d-888e8cb56a7d&pd_rd_i=B00B88630E&psc=1
05	Jumper wire	https://www.amazon.com/Uxcell-a13040500ux0203-Female-Jumper-Cable/dp/B00D7SDDLU/ref=sr_1_53?keywords=jumper+wires&qid=1667292654&qu=eyJxc2MiOiI0LjEzIiwicXNhIjoiMy45OCIsInFzcCI6IjMuODAifQ%3D%3D&sr=8-53
06	LED	1 pics
07	Register (1K)	1 pics
08	5V battery	1 pics

Block Diagram:

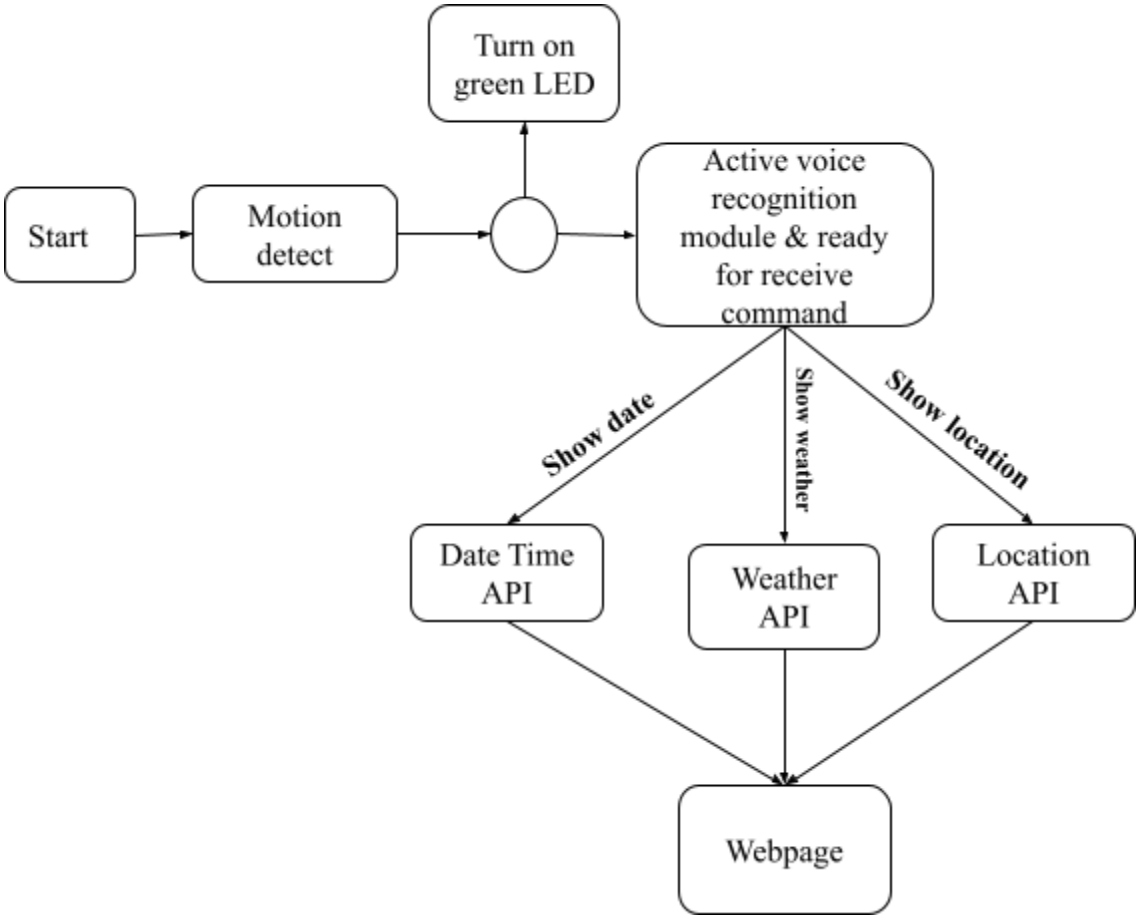

Fig: Block Diagram of Project

Circuit Diagram:

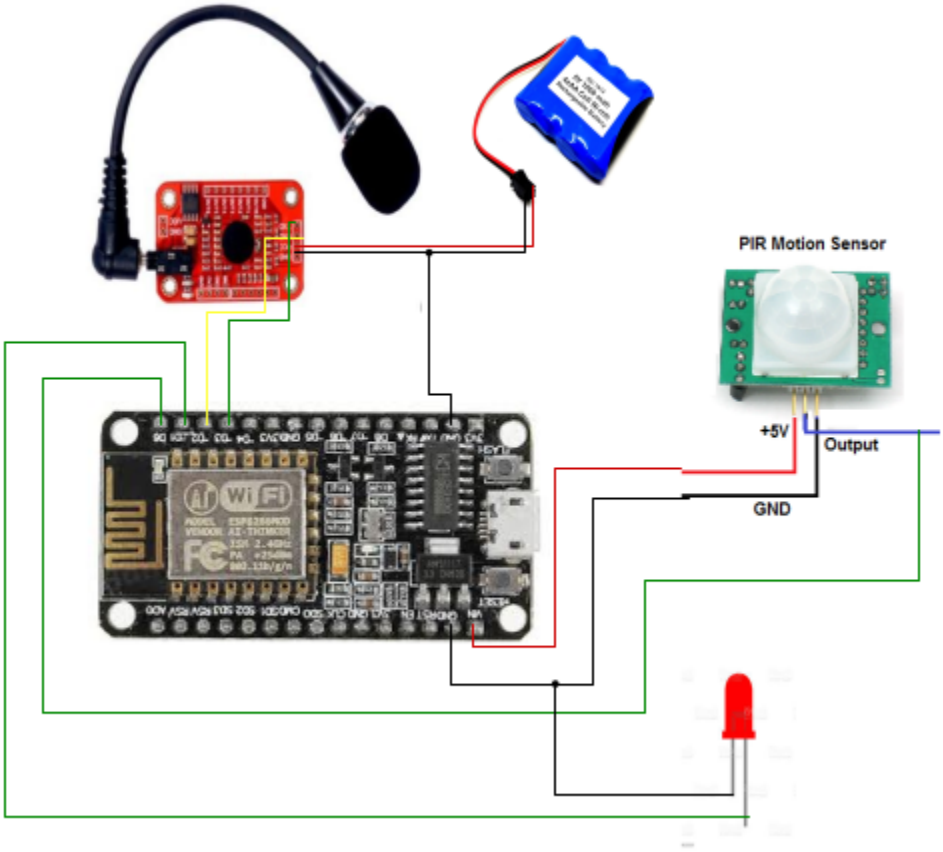

Fig: Circuit Diagram

Prerequisite:

1. Download and Install Arduino IDE on your computer.
2. Install esp8266 nodemcu board in the IDE.
3. Install all the libraries declared in the finalCode.ino file.

Project run procedure:

1. Open the folder named “Ai_smart_mirror_project”
2. Connect the circuit as a figured design circuit.
3. Upload the code named “voiceCommandTraining.ino” in the microcontroller board using a USB cable and open serial monitor to train voice command.
    a. In Serial monitor type “train 0” for first command and train voice ‘show date’
    b. “train 1” type and train command “show weather”
    c. “train 2” type and train command “show location”

4. **Open the code named “finalCode.ino” and changed there:**
    a. ssid = “your wifi name”
    b. Pass = “your wifi password”
    c. Openweather api = “enter your openweather api address”
    d. Google Map api = “enter your google map api”
5. After successfully training the voice command then again open the project folder and upload to the microcontroller the code named “finalCode.ino”.
6. Open terminal and find the and you will find an IP address that is your local host where the website is hosted.
7. Copy this IP address and put it in your computer browser you will see the webpage.
8. Now create a motion in front of the motion sensor then green led will blink and say the voice command in front of the microphone and look at the webpage. It will automatically update data as you command.