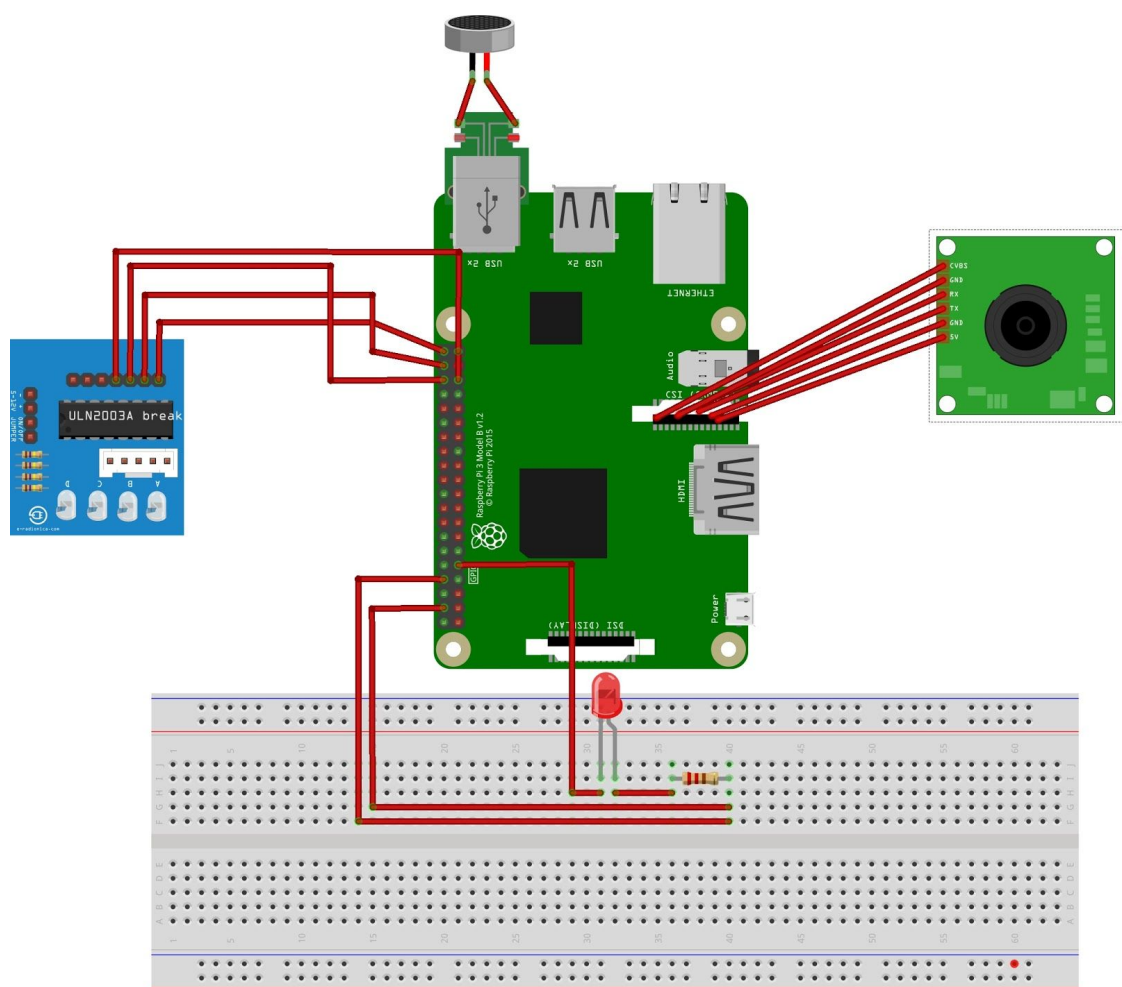


- **Micro SD Card**

We have used external SD card of 16GB for storing the data and OS for raspberry module.



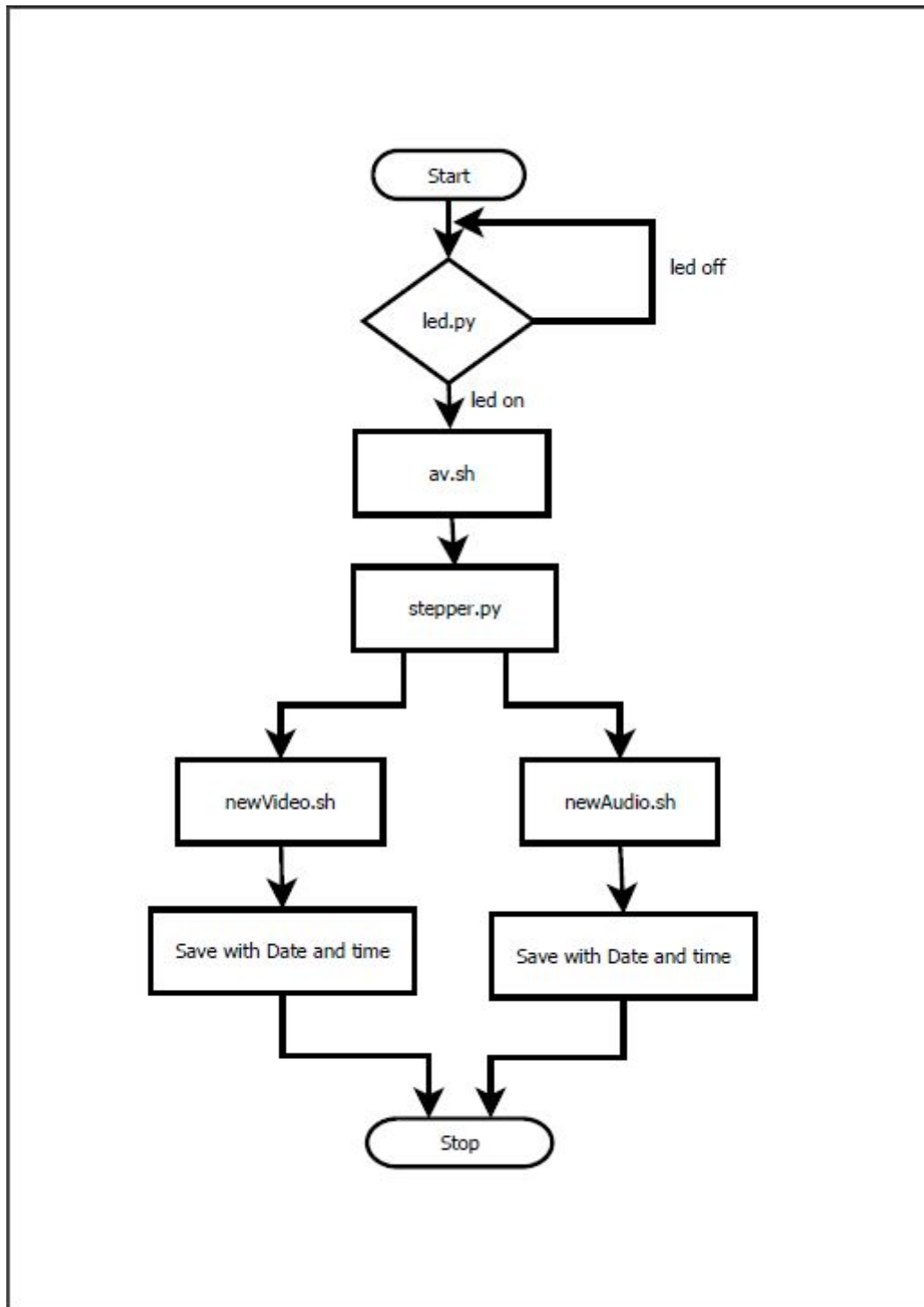
CIRCUIT DIAGRAM



fritzing

manual page of command starteventdetect by typing 'man starteventdetect' in terminal.

Flowchart of the execution of process



Appendix

Steps to setup raspberry pi for first time without monitor:

- Download the latest raspbian OS and extract it. You will get one .img file.
- Format the memory card (minimum 8 GB) using windows format.
- Write the extracted .img file of raspbian to memory card using "Balena Etcher" tool.
- Plug in the memory card to raspberry pi and connect it with micro USB for power supply to board.
- Connect HDMI cable to raspberry pi and any HDMI output device.
- Connect to any wifi in raspberry module.
- Open terminal in pi and type command 'ip addr ' to get the ip of pi.
- Note the IPv4 address of WIFI adapter.ie.
xxx.xxx.xxx.xxx
- Try to figure out ip address or your raspberry pi from the results.
- Run VNC server on pi.
- Download and install VNC viewer on pc.
- Start VNC viewer and add a new connection with the ip address that we have mentioned above.
- Give Login: pi and Password: root
- Now the Raspbian window should be visible !