**Aim:**

IoT based Web Controlled Home Automation using Raspberry Pi

**Additional Hardware Required:**

1. Jumper Wires
2. LED

**Software Required:**

**WebIOPi**

**Connections:**

**Steps to set up WebIOPi:**

**1: Run following commands in Terminal:**

sudo apt update

**2: download zip file using:**

wget https://sourceforge.net/projects/webiopi/files/WebIOPi-0.7.1.tar.gz

**3: When download is done, extract the file and go into the directory**

tar xvzf WebIOPi-0.7.1.tar.gz

cd WebIOPi-0.7.1/

**4: install a patch as this version of the WebIOPi** does not work with the raspberry pi 3

wget <https://raw.githubusercontent.com>/doublebind/raspi/master/webiopi-pi2bplus.patch

patch -p1 -i webiopi-pi2bplus.patch

**5: run the setup installation for the WebIOPi using**

sudo ./setup.sh

Keep saying yes if asked to install any dependencies during setup installation. When done, reboot your pi using:

sudo reboot

**6: Test WebIOPi Installation:**

sudo webiopi -d -c/etc/webiopi/config

sudo service webiopi start

**7: point the web browser of your computer connected to the raspberry pi to http://thepi’sIPaddress:8000**

[use hostname –I to find IP address of Pi]

https;//copiedIPaddress:8000 (eg: http://192.168.0.123:8000)

**8: The system will prompt you for username and password**

Username is *webiopi*

Password is *raspberry*

After the login, look around, and then **click on the GPIO header link**.



And set the PINs that you want to use As OUT

Once you are done using it press Ctrl+C on terminal and stop service from running using;

sudo /etc/init.d/webiopi stop

**Output:**