1. Create a new user

**sudo adduser *<usrname>***

**sudo adduser cdrom -> to add to cdrom group**

type visudo to edit /etc/sudoers file.

Create similar entry as pi for the new user

TO remove user and home dir

userdel -r

1. Install required software
   1. java
   2. Tomcat
      1. Install apache

Get software wget <http://redrockdigimark.com/apachemirror/tomcat/tomcat-8/v8.5.8/bin/apache-tomcat-8.5.8.tar.gz>

Unzip it -> tar -zxvf apache-tomcat-8.5.8.tar.gz

* + 1. Set CATLINA\_HOME
  1. KWeb

wget http://steinerdatenbank.de/software/kweb-1.7.5.tar.gz  
tar -xzf kweb-1.7.5.tar.gz  
cd kweb-1.7.5  
./debinstall

You can also remove it any time with:

**sudo dpkg -r kweb**

**sudo apt-get install xterm**

Minimum requirements are:

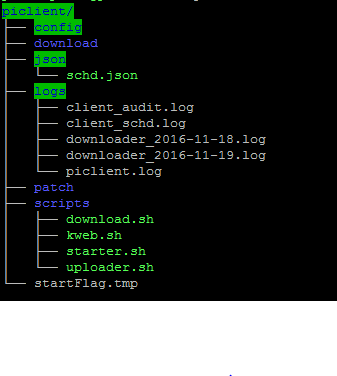
omxplayer, youtube-dl, wget, mupdf or xpdf, leafpad, lxterminal

* 1. Omxplayer

Comes with kweb

* 1. Matchbox manager
  2. Youtubedl/server
  3. GIT

1. Create Folder structure under home dir /home/pi
   1. Folder : piclient



* 1. Folder : Additional file under home directory
     1. Kweb1.sh

|  |
| --- |
| #!/bin/sh  export DISPLAY=:0.0  kweb -KHCUAJ+-zbhrqfpoklgtjneduwxyavcsmi#?!., http://localhost:8080/PiClient/pages/showImg.jsp & > /dev/null  while true; do  sleep 5m  WID=$(xdotool search --onlyvisible --class kweb)  xdotool windowactivate $WID key alt+r  done |

1. Install application
   1. PiClient.war
   2. PiClientMedia.war
2. Set all startup settings
   1. Set environment as “PI”
   2. Autostart kweb

There are lots of place from where the page can be auto started.

* + 1. /etc/profile : issues: loads too early, tomcat server is yet to be started (Not useful for us)
    2. ~./bashrc-> .bach\_aliases : issue- corrupts terminal, always VM starts when loaded. (not useful for us)
    3. Method 1: Modify /home/pi/.config/lxsession/LXDE-pi/autostart as below

|  |
| --- |
| echo "Kiosk Running" @lxpanel --profile LXDE-pi @pcmanfm --desktop --profile LXDE-pi # @xscreensaver -no-splash // commented out xset -dpms xset s off @./kiosk |

Create Kiosk file(kweb.sh) under home directory (/home/pi)

|  |
| --- |
| kiosk |
| #!/bin/sh export DISPLAY=:0.0 kweb -JKAEr https://web site address & > /dev/null while true; do sleep 5m WID=$(xdotool search --onlyvisible --class kweb) xdotool windowactivate $WID key alt+r done |

1. Method 2 :

Craete a file with .desktop extension under /home/pi/.config /autostart folder

Put content like below

|  |
| --- |
| [Desktop Entry]  Comment=kweb when pi starts  Exec=/home/pi/piclient/scripts/kweb.sh  Icon=/Path/to/Your/application/Icon/IconName  Name=piclientpage  Type=Application |

* 1. Disable Screen Sleep

Force the screen to stay on

|  |
| --- |
| sudo nano /etc/lightdm/lightdm.conf |

Add the following lines to the [SeatDefaults] section:

# don't sleep the screen

|  |
| --- |
| xserver-command=X -s 0 dpms |

* 1. To hide the mouse cursor on inactivity

|  |
| --- |
| sudo apt- get install unclutter |

* 1. Turning Off Screen saver

sudo nano /etc/xdg/lxsession/LXDE/autostartsudo nano /etc/xdg/lxsession/LXDE-pi/autostart

Comment out the screensaver line, e.g.:

|  |
| --- |
| @lxpanel --profile LXDE-pi  @pcmanfm --desktop --profile LXDE-pi  #@xscreensaver -no-splash  @sh ${HOME}/.config/lxsession/LXDE-pi/autokey.sh |

Then add these lines:

|  |
| --- |
| #Disable screensaver:  @xset s noblank  @xset s off  @xset -dpms |

Now edit config

sudo nano /etc/kbd/config

Find the following lines and set the values accordingly:

|  |
| --- |
| BLANK\_TIME=0  BLANK\_DPMS=off  POWERDOWN\_TIME=0 |

* 1. Static IP address

sudo nano /etc/dhcpcd.conf

Scroll all the way to the bottom of the file and add one, or both of the following snippets. Depending on whether you want to set a static IP address for a wired connection or a wireless connection eth0 = wired, wlan0 = wireless.

|  |
| --- |
| interface eth0  static ip\_address=192.168.0.10/24 static routers=192.168.0.1 static domain\_name\_servers=192.168.0.1  interface wlan0  static ip\_address=192.168.0.200/24 static routers=192.168.0.1  static domain\_name\_servers=192.168.0.1 |

interface = This defines which network interface you are setting the configuration for.  
static ip\_address = This is the IP address that you want to set your device to. (Make sure you leave the /24 at the end)  
static routers = This is the IP address of your gateway (probably the IP address or your router)  
static domain\_name\_servers = This is the IP address of your DNS (probably the IP address of your router).

* 1. Set timezone
     1. Type tzselect , and answer the questions
     2. Add below entry to the end of ~/.proflie file

TZ='Asia/Kolkata'; export TZ

* 1. Mention Switcher script in /home/pi/.config/rc.local
  2. Mention Starter.py inside /etc.profile as below

sudo python /home/pi/Starter.py to the end of the file

* 1. Enable remote contro;

sudo apt-get install xrdp

You can add it to the file .profile or .bashrc or your current shell profile file (located in your home directory). Then, each time you open your shell it will be loaded.

To change the environmental variable "permanently" you'll need to consider at least these situations:

1. Login/Non-login shell
2. Interactive/Non-interactive shell
3. Bash as login shell will load /etc/profile, ~/.bash\_profile, ~/.bash\_login, ~/.profile in the order
4. Bash as non-login interactive shell will load ~/.bashrc
5. Bash as non-login non-interactive shell will load the configuration specified in environment variable $BASH\_ENV