Monitoring screen

Raspberry into full screen browser kiosk

Inspired by : https://die-antwort.eu/techblog/2017-12-setup-raspberry-pi-for-kiosk-mode/

sudo apt-get update

sudo apt-get upgrade
sudo apt-get install --no-install-recommends xserver-xorg x11-xserver-utils xinit openbox chromium-browser

mkdir /home/pi/browser_rotate

Copy the files clean setfocus and web into the directory browser_rotate

- add at the end of the file /boot/config.txt

      disable_overscan=0
      framebuffer_width=1920
      framebuffer_height=1080
      framebuffer_depth=32
      framebuffer_ignore_alpha=1
      hdmi_pixel_encoding=1
      hdmi_group=2

- edit the /etc/rc.local

      #!/bin/sh -e
      #
      # rc.local
      #
      # This script is executed at the end of each multiuser runlevel.
      # Make sure that the script will "exit 0" on success or any other
      # value on error.
      #
      # In order to enable or disable this script just change the execution
      # bits.
      #
      # By default this script does nothing.
      # Print the IP address
      _IP=$(hostname -I) || true
      if ["$_IP"]; then
      printf "My IP address is %s\n" "$_IP"
      fi

      # Wait for the TV-screen to be turned on...
      while ! $(tvservice --dumpedid /tmp/edid | fgrep -qv 'Nothing written!'); do
      bHadToWaitForScreen=true;
      printf "===> Screen is not connected, off or in an unknown mode, waiting for it to become available...\n"
      sleep 10;
      done;

      printf "===> Screen is on, extracting preferred mode...\n"
      _DEPTH=32;
      eval $(edidparser /tmp/edid | fgrep 'preferred mode' | tail -1 | sed -Ene 's/^.+(DMT|CEA) \(([0-9]+)\) ([0-9]+)x([0-9]+)[pi]?
      @.+/_GROUP=\1;_MODE=\2;_XRES=\3;_YRES=\4;/p');

      printf "===> Resetting screen to preferred mode: %s-%d (%dx%dx%d)...\n" $_GROUP $_MODE $_XRES $_YRES $_DEPTH
      tvservice --explicit="$_GROUP $_MODE"
      sleep 1;

      echo $_XRES $_YRES $_XRES $_YRES $_DEPTH

      printf "===> Resetting frame-buffer to %dx%dx%d...\n" $_XRES $_YRES $_DEPTH
      fbset --all --geometry $_XRES $_YRES $_XRES $_YRES $_DEPTH -left 0 -right 0 -upper 0 -lower 0;
      sleep 1;

      service lightdm restart

      exit 0

- Edit file /home/pi/.config/lxsessin/LXDE/autostart

```
# These things are run when an Openbox X Session is started.
# You may place a similar script in $HOME/.config/openbox/autostart
# to run user-specific things.
#

# If you want to use GNOME config tools...
#
#if test -x /usr/lib/arm-linux-gnueabihf/gnome-settings-daemon >/dev/null; then
# /usr/lib/arm-linux-gnueabihf/gnome-settings-daemon &
#elif which gnome-settings-daemon >/dev/null 2>&1; then
# gnome-settings-daemon &
#fi

# If you want to use XFCE config tools...
#
#xfce-mcs-manager &
# Disable any form of screen saver / screen blanking / power management
xset s off
xset s noblank
xset -dpms

# Allow quitting the X server with CTRL-ATL-Backspace
setxkbmap -option terminate:ctrl_alt_bksp

# Start Chromium in kiosk mode
sed -i 's/"exited_cleanly":false/"exited_cleanly":true/' ~/.config/chromium/'Local State'
sed -i 's/"exited_cleanly":false/"exited_cleanly":true/; s/"exit_type":"[^"]\+"/"exit_type":"Normal"/'
~/.config/chromium/Default/Preferences
/usr/bin/python /home/pi/browser_rotate/web
```

sudo reboot