Procedure Guide: Setting Up Mediboard Script on Raspberry Pi

Objective

To configure a Raspberry Pi to automatically launch the Mediboard_raspberry_with_fullCreen.py Python script on system boot using systemd.

1. Verify the Script Works Manually

Before automating, confirm the script runs correctly:

python3 /home/wealth/Downloads/Mediboard_raspberry_with_fullCreen.py

If Selenium or other dependencies are missing, install them as described below.

2. Install Selenium

If you receive 'ModuleNotFoundError: No module named selenium', install Selenium using the appropriate method for Raspberry Pi OS (Debian).

Option A – Install via apt (Recommended):
sudo apt install python3-selenium -y

Option B – Install in a Virtual Environment (For Developers):
python3 -m venv ~/selenium_env
source ~/selenium_env/bin/activate
pip install selenium
python /home/wealth/Downloads/Mediboard_raspberry_with_fullCreen.py
deactivate

Avoid using --break-system-packages unless absolutely necessary.

3. Create a systemd Service

Systemd lets your script run automatically on boot and restart if it crashes.

Create the service file:
sudo nano /etc/systemd/system/mediboard.service

Paste this configuration:

[Unit]
Description=Mediboard Fullscreen Launcher
After=network-online.target

[Service]
Type=simple
User=wealth
ExecStart=/usr/bin/python3 /home/wealth/Downloads/Mediboard_raspberry_with_fullCreen.py

WorkingDirectory=/home/wealth/Downloads
Environment=DISPLAY=:0
Environment=XAUTHORITY=/home/wealth/.Xauthority
Restart=always
RestartSec=10

[Install]
WantedBy=graphical.target

Confirm Python path with: which python3
Save and exit with Ctrl + O, Enter, then Ctrl + X.

4. Enable and Start the Service

Reload systemd and enable auto-start:
sudo systemctl daemon-reload
sudo systemctl enable mediboard.service

Start immediately:
sudo systemctl start mediboard.service

Check status:
sudo systemctl status mediboard.service

5. Reboot to Verify

Reboot the Raspberry Pi:
sudo reboot

After startup, the Mediboard script should launch automatically in fullscreen mode.

6. Manage the Service

To manage your service:

Stop: sudo systemctl stop mediboard.service
Restart: sudo systemctl restart mediboard.service
Disable autostart: sudo systemctl disable mediboard.service
View logs: journalctl -u mediboard.service -f

7. Optional: Autostart After Login (Graphical Desktop Only)

If you prefer the script to start after login:

mkdir -p ~/.config/autostart
nano ~/.config/autostart/mediboard.desktop

Paste this:
[Desktop Entry]
Type=Application
Name=Mediboard
Exec=python3 /home/wealth/Downloads/Mediboard_raspberry_with_fullCreen.py

X-GNOME-Autostart-enabled=true

Save, exit, and it will launch when you log into the desktop.

Summary

■ Installed Selenium safely
■ Created and enabled a systemd service
■ Verified script launches at boot
■ Provided optional desktop autostart method