

Robotic Flower: Run on Startup!

Hi there! Today we are going to learn how to make our Robotic Flower app start automatically when the computer starts.

We will use a special file that tells the computer to run our program.

Step 1: Make a Run Script

1. Open your terminal.

2. Type:

```
nano /home/roboticflower/myenv/run_robotic_flower.sh
```

3. In the file, write these lines:

```
#!/bin/bash
```

```
source /home/roboticflower/myenv/myenv/bin/activate
```

```
python /home/roboticflower/myenv/roboticflower.py
```

```
md
```

4. Save the file (Ctrl+O, Enter) and exit (Ctrl+X).

5. Make it executable:

```
chmod +x /home/roboticflower/myenv/run_robotic_flower.sh
```

Step 2: Create an Autostart File

1. In the terminal, type:

```
mkdir -p ~/.config/autostart
```

2. Now open a new file:

```
nano ~/.config/autostart/roboticflower.desktop
```

3. Paste these lines in:

```
[Desktop Entry]
```

```
Type=Application
```

```
Name=Robotic Flower
```

```
Exec=/home/roboticflower/myenv/run_robotic_flower.sh
```

```
X-GNOME-Autostart-enabled=true
```

4. Save and exit (Ctrl+O, Enter then Ctrl+X).

Testing Your Setup

Before you restart, test your script manually!

1. Open a terminal in your desktop session.

2. Type:

```
DISPLAY=:0 XAUTHORITY=/home/roboticflower/.Xauthority  
/home/roboticflower/myenv/run_robotic_flower.sh
```

3. Check that your camera window opens and everything works.

If it works, then log out and log in again or reboot using:

```
sudo reboot
```

Summary & Final Checklist

Here is what you did:

- Made a run script (`run_robotic_flower.sh`) that activates the virtual environment, runs your app, and then runs 'md'.
- Created an autostart file (`roboticflower.desktop`) in `~/.config/autostart`.
- (Optional) Created a separate autostart for 'md'.
- Tested the script manually.

Now your Robotic Flower app will start automatically when you log in!