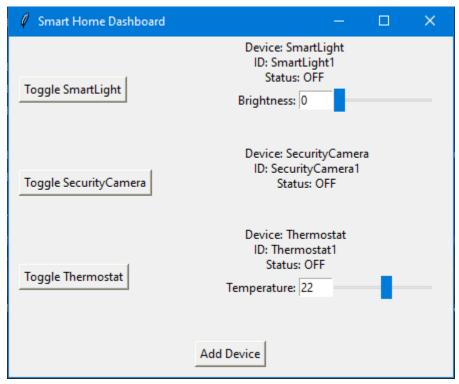
IOT Smart Home Simulator

Navneet Kishan Srinivasan 23 November 2023

The Graphical User Interface (GUI) for the IoT Smart Home Simulator has been developed in Python using the Tkinter library. To utilize the GUI, execute the SmartDeviceGUI.py code, and the GUI will open in a window. The simulator comes pre-loaded with three default device types:

- 1. Smart Light
- 2. Security Camera
- 3. Thermostat



The user can interact with the devices via toggle buttons to switch them ON or OFF, reflecting the status changes accordingly.

Additionally, the temperature of the thermostat can be adjusted using a scroll bar, while brightness control is available through a separate scroll bar.



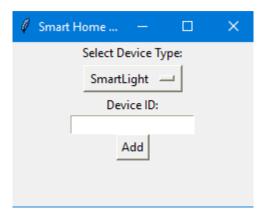
For adding new devices, the user can click the "Add Device" button.



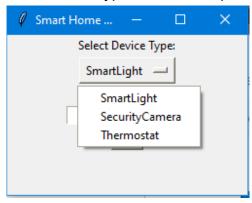
This action triggers a smaller window to appear, displaying a dropdown menu featuring available device types for addition.

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The user is prompted to select a device type from the dropdown and assign a device ID.



After adding a new device:

