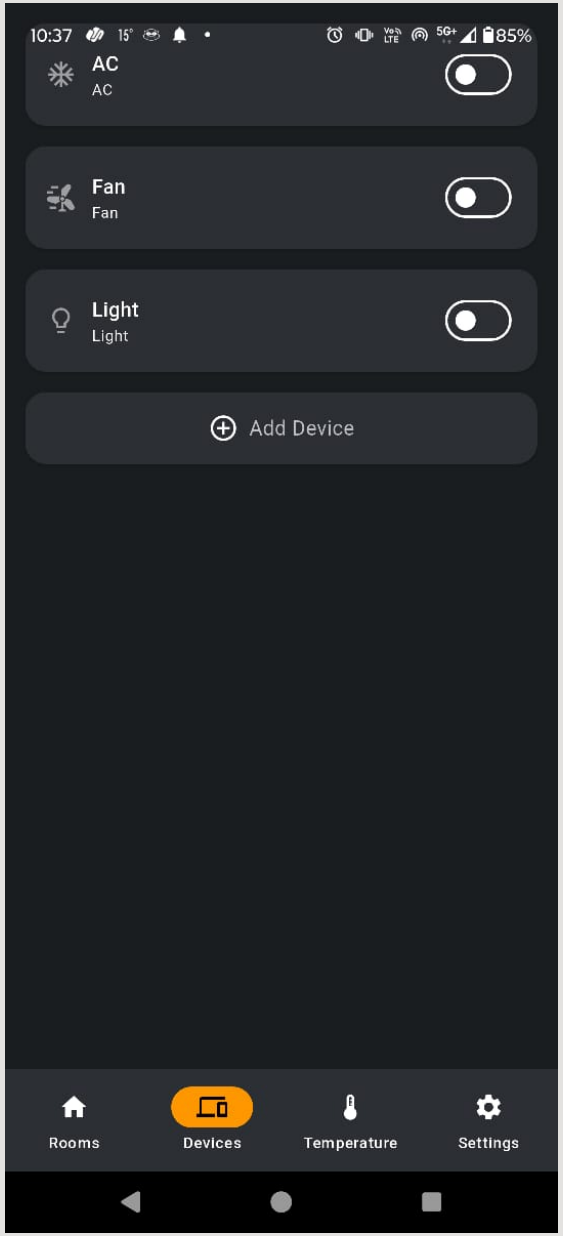
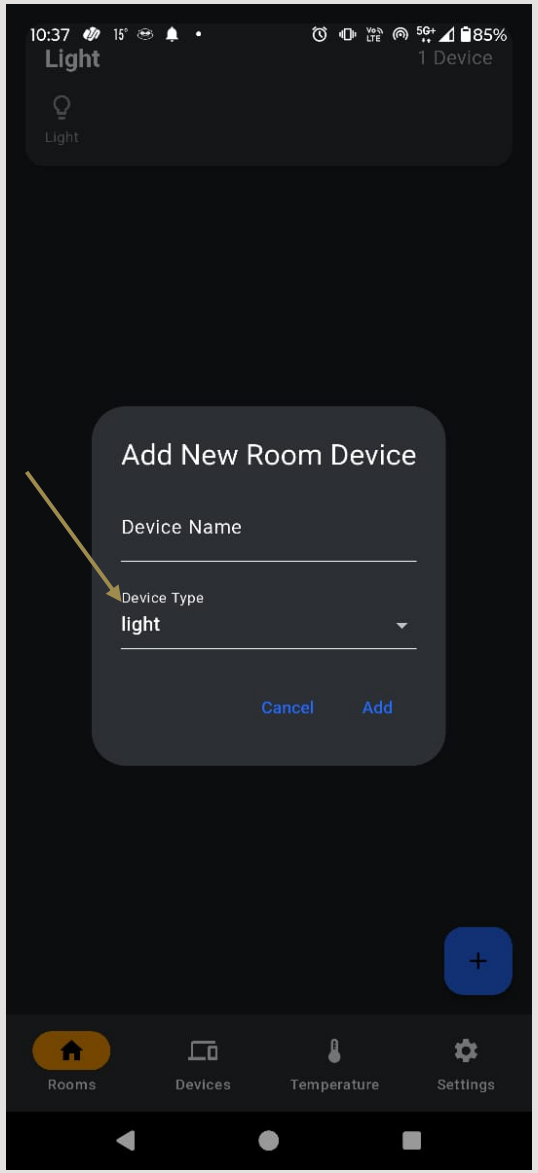
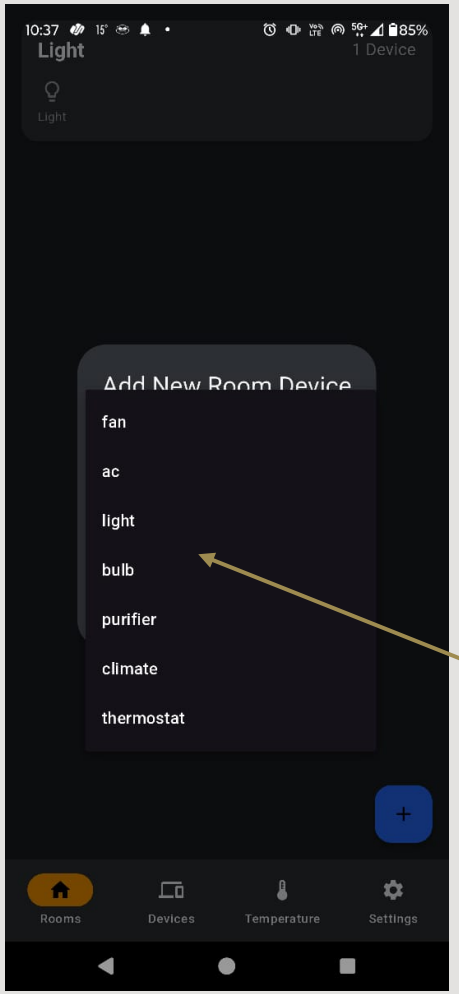


Control Home

An app to control smart home devices via IOT, including lights, fans, and thermostats.

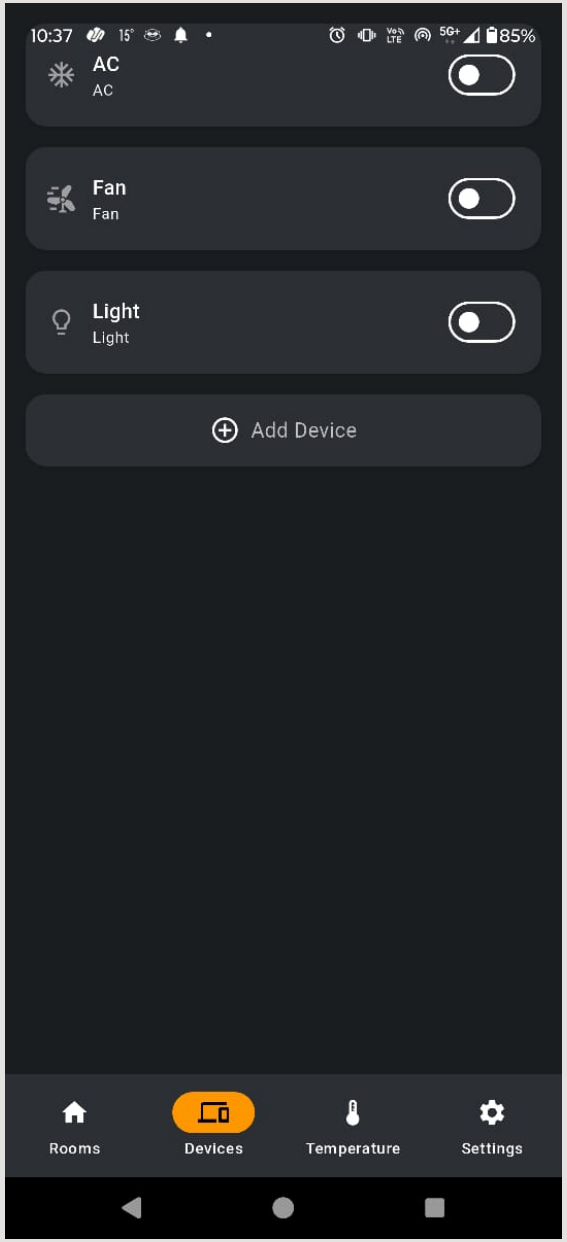




Starting User Interface

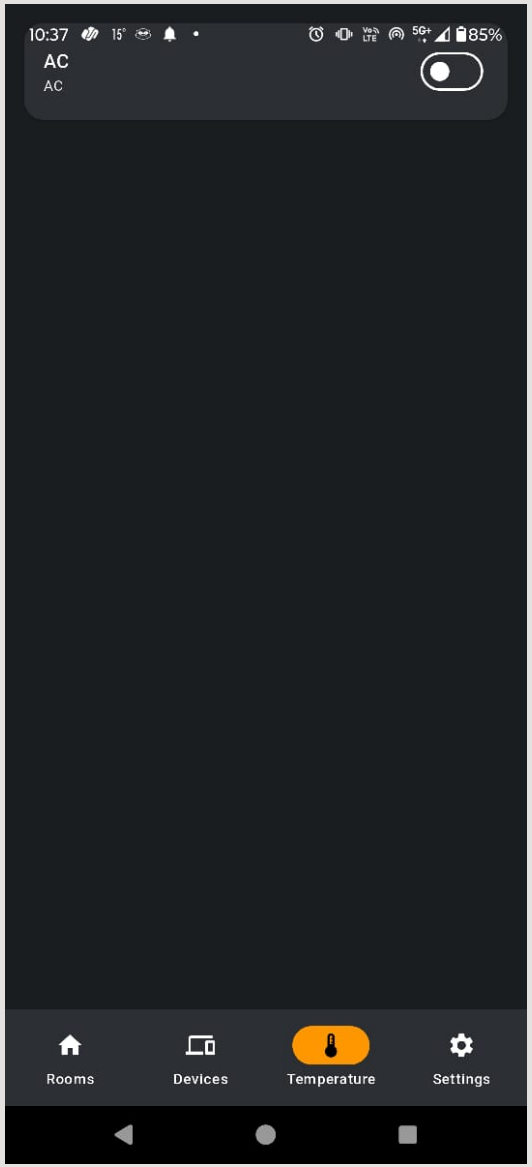
It contains Rooms section, Devices section, Temperature Section and setting section.
In Room section we can create room according to our requirement so we can add IOT devices in this room which can be controlled through this app.

also you can select the device type according to your categories.



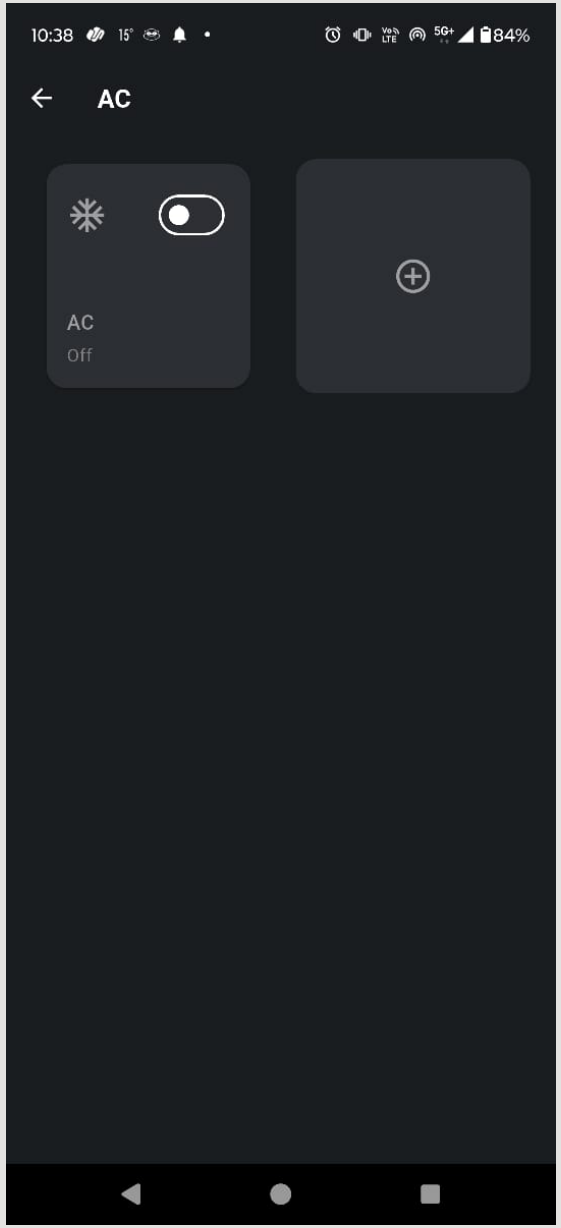
Second User Interface

In the devices section you can directly control your any IOT Devices. You can on or off any IOT devices.



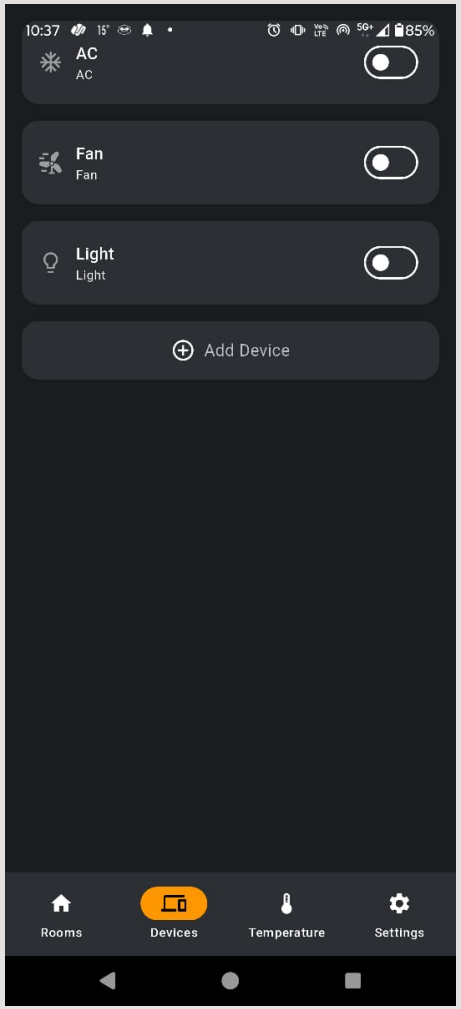
Third User Interface

In Temperature section all the temperature related IOT devices Are shown in this section so we can control it.



Last User Interface

On clicking any room devices. That opens this interface which Can used for adding multiple devices.



Note: To make your app fully functional and able to control devices via IoT, you'll need to ensure the following components are in place:

1. Backend Integration
•Develop a backend server to manage the communication between your app and the IoT devices.
•Use a protocol like MQTT (Message Queuing Telemetry Transport) or HTTP for device communication.
•Implement secure communication using TLS/SSL.

2. IoT Device Connectivity
•Ensure your IoT devices are compatible with the protocols you choose (e.g., MQTT, Zigbee, Z-Wave, or Wi-Fi).
•Create or configure firmware on the devices to communicate with your app.

3. API Development
•Develop RESTful or WebSocket APIs to handle commands like turning devices on/off, adjusting settings, etc.
•These APIs will act as the bridge between the app and your backend.

4. Authentication and Authorization
•Add user authentication (e.g., OAuth2) to secure the app.
•Implement device-specific permissions, so only authorized users can control the devices.

5. Real-Time Feedback
•Use WebSocket or MQTT to provide real-time status updates of devices to the app.
•For example, if a light is turned off manually, the app should update immediately.

6. Device Discovery
•Add functionality to discover devices automatically in the network, such as scanning for connected devices via Wi-Fi or Bluetooth.
•Alternatively, allow users to manually add devices by entering their details.

THANK YOU