Jetson Nano Main Program Structure

Initialize Third-Party

Run

Initialize

Home

Home, Room, and Thing class objects are child classes of Main

Current Status

Run

Initialize

Room

Initialize

Get Status

Status Interval

Thing

Run

Key

Class Object

Method

Gerardo's Smart Home Service
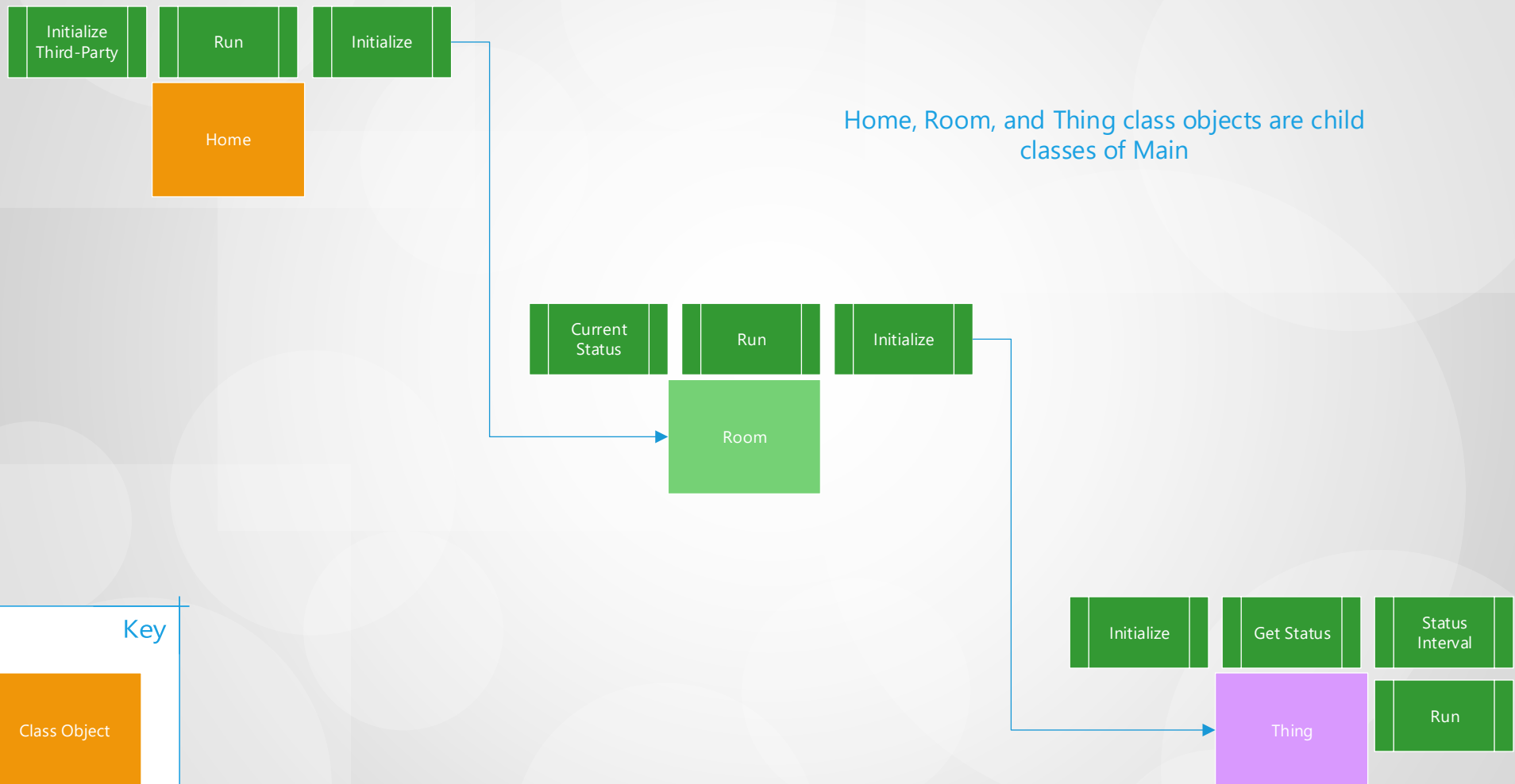
Raspberry Pi Main Program Structure

Thing Main is a child of Main

Initialize	Run	Process Interrupt
Interrupt	Thing Main	Initialize

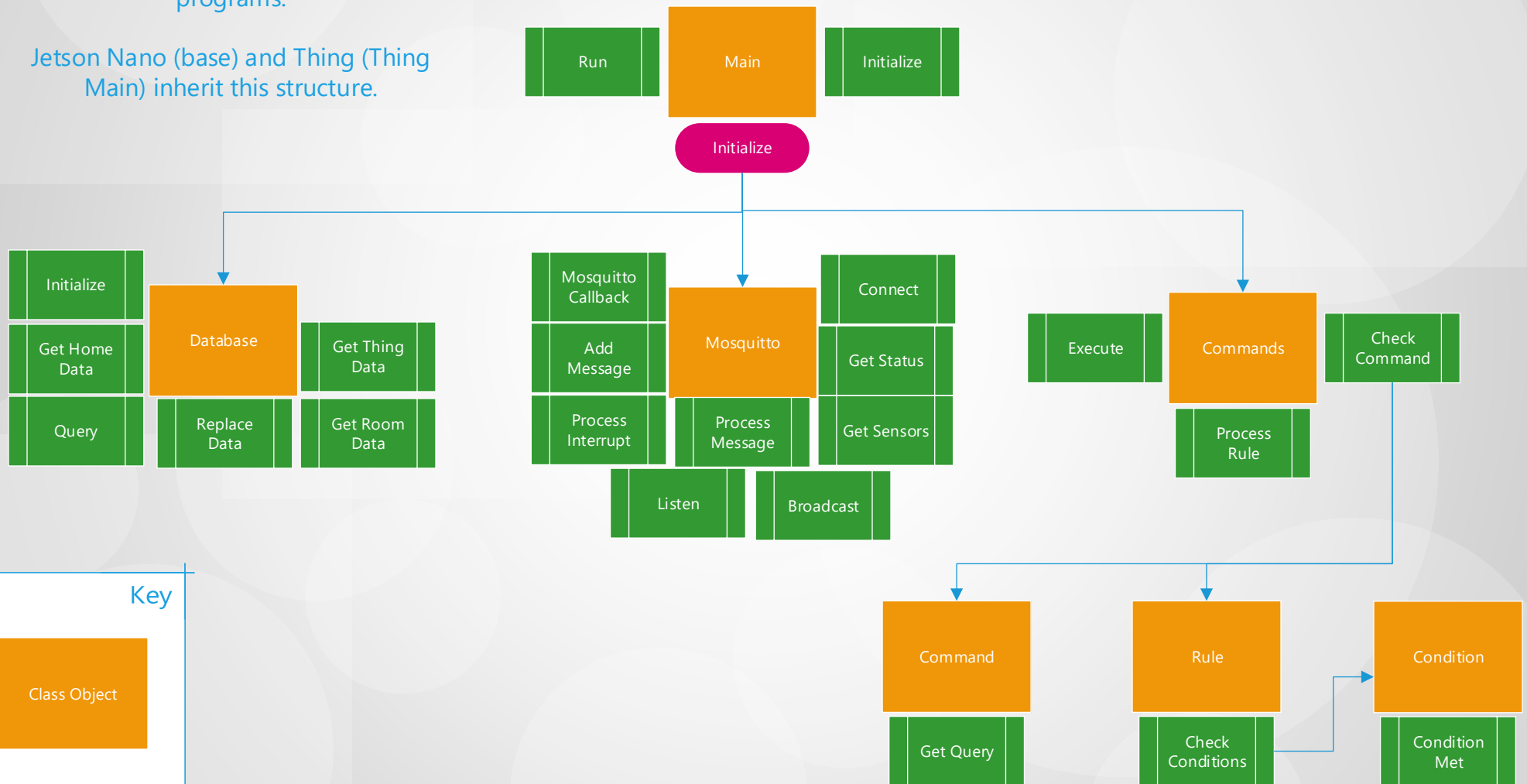|		
Start	Interrupt Callback	Configure Pin
	MCU	Add Interrupt
Initialize	Read Write	Configure Interrupt

Key
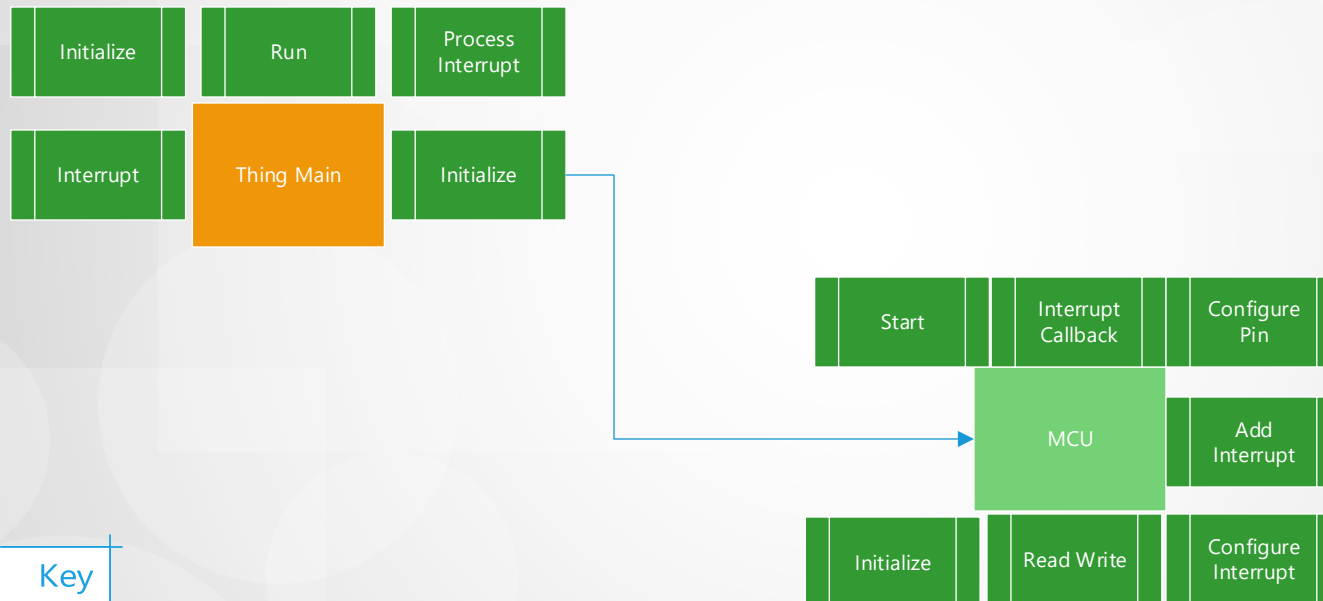
- Class Object
- Method

Main Parent Object

Main parent object is the base structure for entire smart home. This class is the parent class for all main programs.

Jetson Nano (base) and Thing (Thing Main) inherit this structure.

Run | Main | Initialize

Initialize

Initialize | Database | Get Thing Data
Get Home Data | |
Query | Replace Data | Get Room Data

Mosquitto Callback | Mosquitto | Connect
Add Message | | Get Status
Process Interrupt | Process Message | Get Sensors
Listen | Broadcast

Execute | Commands | Check Command
| Process Rule |

Command | Rule | Condition
Get Query | Check Conditions | Condition Met

Key

Class Object

Method