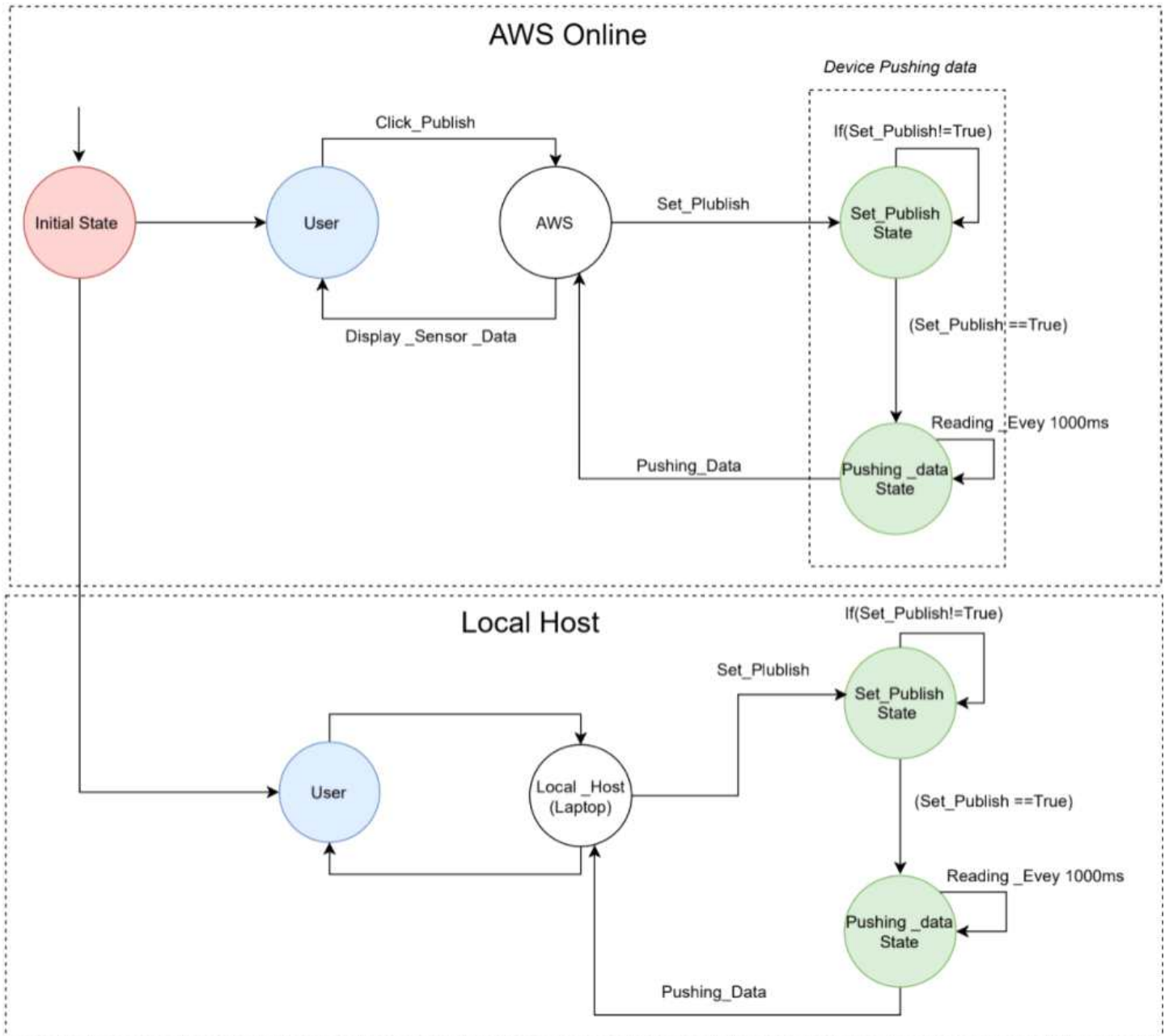
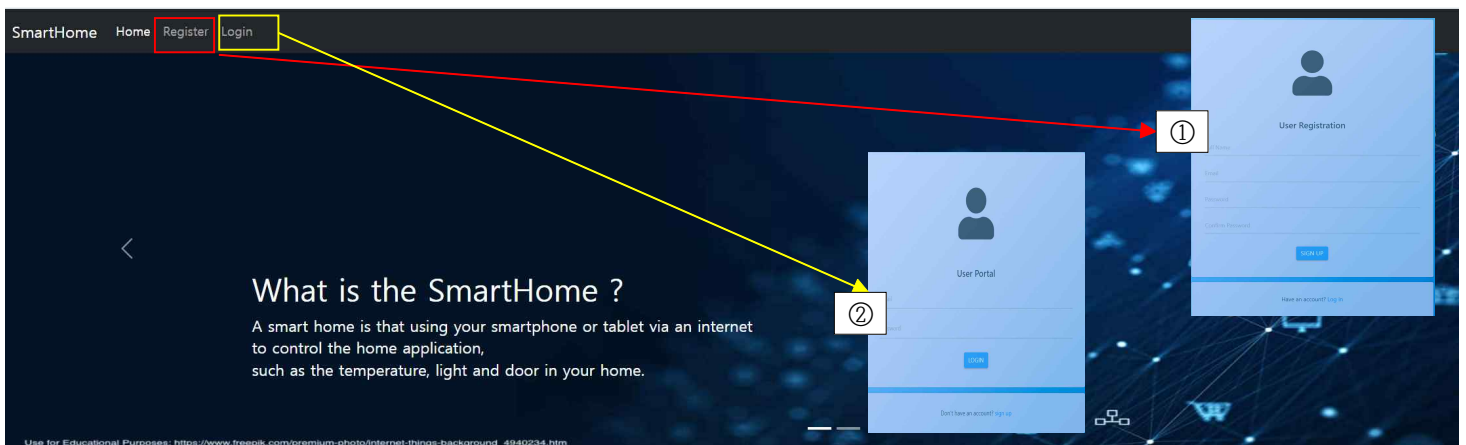


Finite State Machine of Smart-Home



Move to “<https://ec2-54-151-67-43.us-west-1.compute.amazonaws.com/>”



- ① First, sign up to control a smart-home
- ② Move to login

SmartHome Account Dashboard Devices Edit Info Logout

Devices ③

New Device ID:

New Device API:

REGISTER DELETE

③ Register your device on AWS.

- Device ID, Device API(Token number)

For example

- Device ID : 3f0020000d47303338353831
- Device API : 2dc7b02d63a975b548f1b3d506d3061b7ed5c9d0

④ You can read sensor-data

← → ↻ 🏠 ec2-54-151-67-43.us-west-1.compute.amazonaws.com/dashboard

SmartHome Account Dashboard Devices Edit Info Logout

Dashboard

Real time:
Sunday, November 28th 2021, 8:26:01 pm

Weather: 🌤️ Door Status: Humidity: 24% Temperature: 69.8°

Online Communication

ID:3e002000147303338353832

PING INSTRUCTION

Please select variable to read

Humidity

READ

Online Publish

☐ OFF

Online Simulated Clock Here

Online status:

Select variable(sensor data) to read

SmartHome Account Dashboard Devices Edit Info Logout

Dashboard

Real time:
Sunday, November 28th 2021, 8:26:01 pm

Weather: 🌤️ Door Status: Open Humidity: 24% Temperature: 69.8°

Online Communication

ID:3e002000147303338353832

PING INSTRUCTION

Please select variable to read

Humidity

READ

Online Publish

☐ OFF

Online Simulated Clock Here

Online status:

Online Publish
⇒

SmartHome Account Dashboard Devices Edit Info Logout

Dashboard

Real time:
Sunday, November 28th 2021, 8:42:33 pm

Weather: 🌤️ Door Status: Open Humidity: 24% Temperature: 69.8°

Online Communication

ID:3e002000147303338353832

PING INSTRUCTION

Please select variable to read

Humidity

READ

Online Publish

☒ ON

Tue Nov 30 2021 01:09:42 GMT+0000 (Coordinated Universal Time)

Online status:
Device published successful

(Door status Open → Close) ↓

SmartHome Account Dashboard Devices Edit Info Logout

Dashboard

Real time:
Sunday, November 28th 2021, 8:46:17 pm

Weather: 🌤️ Door Status: Close Humidity: 24% Temperature: 69.8°

Online Communication

ID:3e002000147303338353832

PING INSTRUCTION

Please select variable to read

Humidity

READ

Online Publish

☒ ON

Tue Nov 30 2021 04:53:42 GMT+0000 (Coordinated Universal Time)

Online status:
Device published successful

⇐

Smart Light

ON ☐ Auto ☐

Brightness:

100

Sensor setting

Sensor min: 1166

Sensor max: 2743

Sensor Val: 153

Present brightness: 100

LED (D7) blinking

Hz: 3



[illegible]

The image displays two sequential screenshots of a web application interface, connected by a downward-pointing arrow, illustrating a state transition.

Top Screenshot (Initial State):

- Header:** "Debug Only: Local Serial Communication" with a "CLICK HERE" button.
- Navigation:** "SmartHome", "Local Comm.", "Dashboard".
- Dashboard Section:**
 - Real time: Sunday, November 28th 2021, 7:57:27 pm
 - Door Status: sensor(1012)
 - Humidity: 24%
 - Temperature: 69.8
- Local Serial Communication Section:**
 - Real time:
 - Local Serial Communication
 - COM4
 - CONNECT** button
 - COM status: COM4 has been closed
 - Mon Nov 29 2021 00:08:51 GMT-0700 (미 산악 표준시)

Bottom Screenshot (Final State):

- Navigation:** "SmartHome", "Local Comm.", "Dashboard".
- Dashboard Section:**
 - Real time: Sunday, November 28th 2021, 7:59:13 pm
 - Door Status: sensor(975)
 - Humidity: 24%
 - Temperature: 69.8
- Local Serial Communication Section:**
 - Real time:
 - Local Serial Communication
 - COM4
 - DISCONNECT** button
 - COM status: Serial monitor opened successfully (Data rate: 9600)
 - Mon Nov 29 2021 02:13:51 GMT-0700 (미 산악 표준시)

Smart Light Section:

- ON button (active)
- Auto button (active)
- Brightness: 51 (slider)
- Sensor setting:
 - Sensor min: 1715 (slider)
 - Sensor max: 1904 (slider)
 - Sensor Val: 171
 - Present brightness: 100

LED (D7) blinking

3

CMD Status Data Output

```
{
  "cmd": "open",
  "msg": "Serial monitor opened successfully (Data rate: 9600)"
}
```



RD Data Output

[2021 06:14:51 GMT-0700 (미 산악 표준시)]{"t":1638154994,"light":{"L0":"1","L1":"0","b":"95","s":171,"m":1166,"M":2743},"led":{"r1":"p","s":"0","h":"3"},"ct":"0","led_sensor":152,"door_sensor":988,"Humidity":24,"Temperature":69.8,"simclockLocal":"Mon Nov 29 2021 06:15:51 GMT-0700 (미 산악 표준시)"}[{"t":1638154995,"light":{"r1":"p","s":"0","h":"3"},"ct":"0","led_sensor":150,"door_sensor":985,"Humidity":24,"Temperature":69.8,"simclockLocal":"Mon Nov 29 2021 06:16:51 GMT-0700 (미 산악 표준시)"}[{"t":1638154996,"light":{"L0":"1","L1":"0","b":"95","s":171,"m":1166,"M":2743},"led":{"r1":"p","s":"0","h":"3"},"ct":"0","led_sensor":155,"door_sensor":992,"Humidity":24,"Temperature":69.8,"simclockLocal":"Mon Nov 29 2021 06:17:51 GMT-0700 (미 산악 표준시)"}[{"t":1638154997,"light":{"L0":"1","L1":"0","b":"95","s":171,"m":1166,"M":2743},"led":{"r1":"p","s":"1","h":"3"},"ct":"0","led_sensor":156,"door_sensor":992,"Humidity":24,"Temperature":69.8,"simclockLocal":"Mon Nov 29 2021 06:18:51 GMT-0700 (미 산악 표준시)"}[{"t":1638154998,"light":{"L0":"1","L1":"0","b":"95","s":171,"m":1166,"M":2743},"led":{"r1":"p","s":"1","h":"3"},"ct":"0","led_sensor":156,"door_sensor":992,"Humidity":24,"Temperature":69.8,"simclockLocal":"Mon Nov 29 2021 06:19:51 GMT-0700 (미 산악 표준시)"}[{"t":1638154999,"light":{"r1":"p","s":"1","h":"3"},"ct":"0","led_sensor":156,"door_sensor":992,"Humidity":24,"Temperature":69.8,"simclockLocal":"Mon Nov 29 2021 06:20:51 GMT-0700 (미 산악 표준시)"}[{"t":1638155000,"light":{"L0":"1","L1":"0","b":"95","s":171,"m":1166,"M":2743},"led":{"r1":"p","s":"0","h":"3"},"ct":"0","led_sensor":151,"door_sensor":989,"Humidity":24,"Temperature":69.8,"simclockLocal":"Mon Nov 29 2021 06:21:51 GMT-0700 (미 산악 표준시)"}[{"t":1638155001,"light":{"L0":"1","L1":"0","b":"95","s":171,"m":1166,"M":2743},"led":{"r1":"p","s":"0","h":"3"},"ct":"0","led_sensor":151,"door_sensor":989,"Humidity":24,"Temperature":69.8,"simclockLocal":"Mon Nov 29 2021 06:22:51 GMT-0700 (미 산악 표준시)"}[{"t":1638155002,"light":{"L0":"1","L1":"0","b":"95","s":171,"m":1166,"M":2743},"led":{"r1":"p","s":"1","h":"3"},"ct":"0","led_sensor":156,"door_sensor":994,"Humidity":24,"Temperature":69.8,"simclockLocal":"Mon Nov 29 2021 06:23:51 GMT-0700 (미 산악 표준시)"}[{"t":1638155003,"light":{"r1":"p","s":"1","h":"3"},"ct":"0","led_sensor":156,"door_sensor":994,"Humidity":24,"Temperature":69.8,"simclockLocal":"Mon Nov 29 2021 06:24:51 GMT-0700 (미 산악 표준시)"}]