

Smart Home

Sprint 3



SMARTHOME

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Table of contents

Key Milestones

Key Achievements to date

Angular Web App completed

Real-time communication with IoT hub

Live Demo

Limitations and risks

Final steps

Questions

Ilya Prigogine

Key milestones

December
10th, 2024:
Final sprint, QA

December
17th, 2024:
Product delivery

January 6th,
2024: User
Documentation

Key Achievements to date

Angular Web App
completed

Real-time
communication
between the Web App
and registered devices
on an IoT Hub

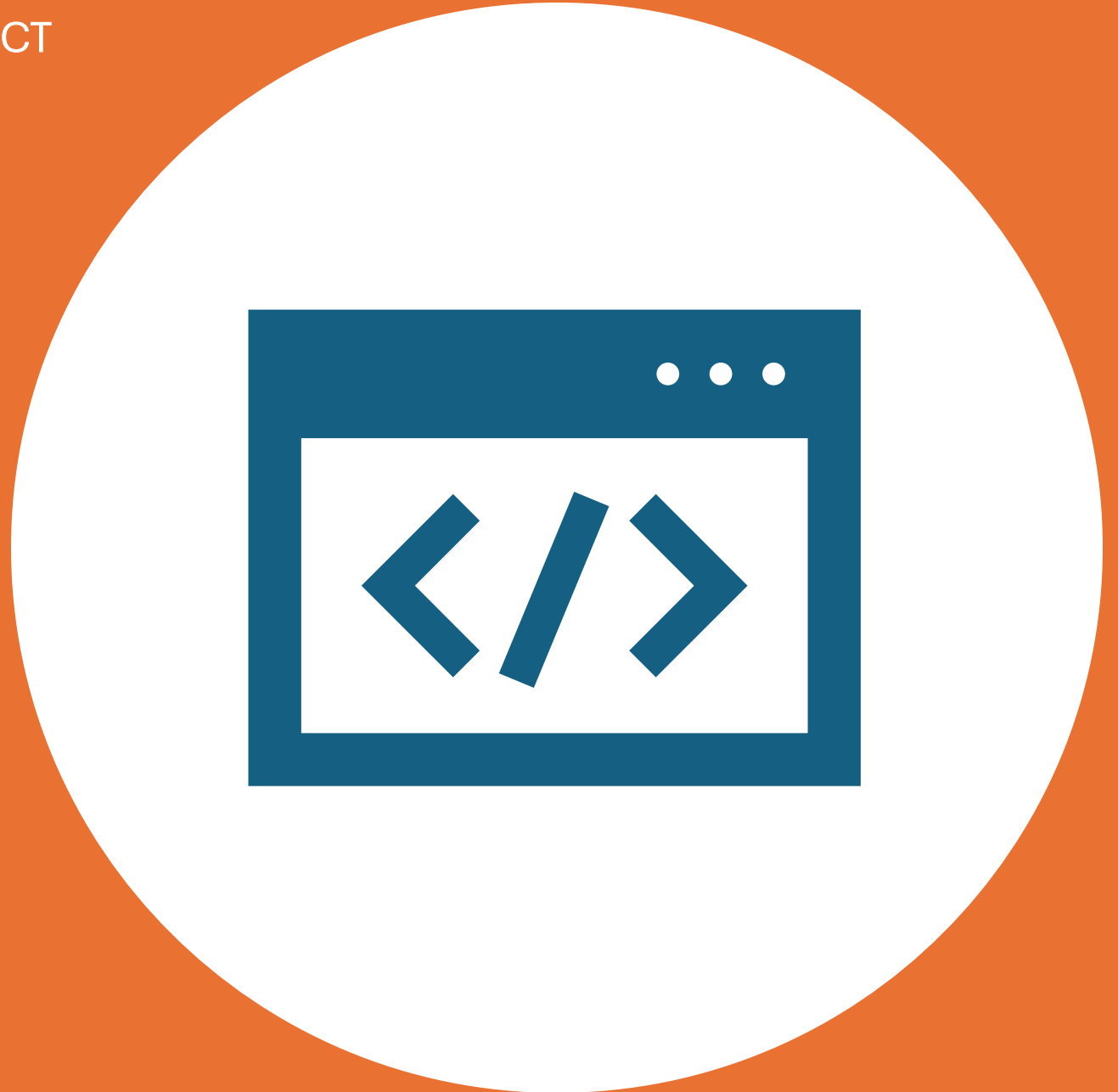
NEW PROJECT



Angular Web App

Back-end: C#

Front-end: TypeScript



Forms

Dashboard

Add Home

Add Room

Add Device

Logout

Add Device

Enter the device name

Select Home



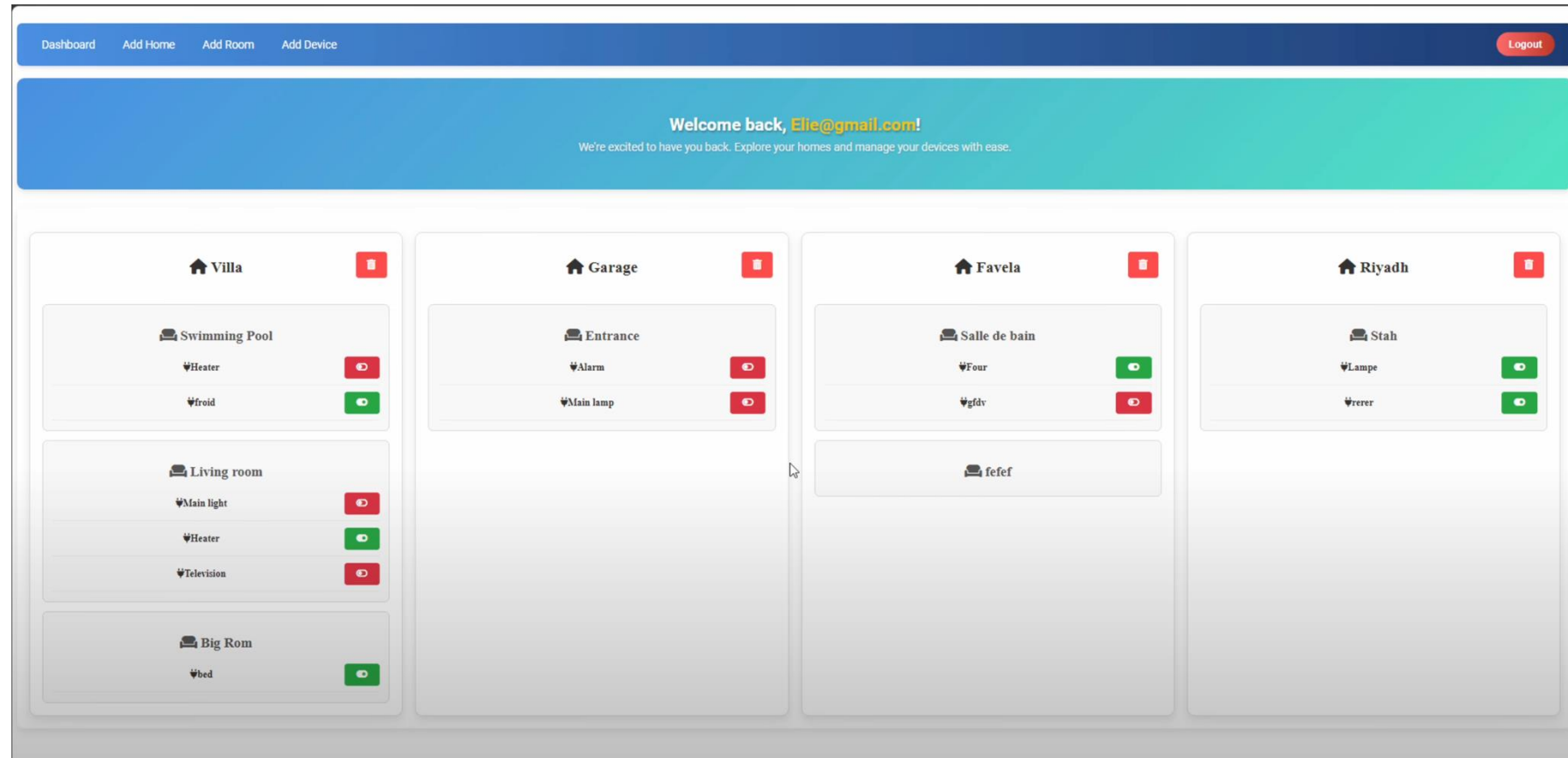
Select Room

☐

Device is Off

Add Device

Dashboard Page



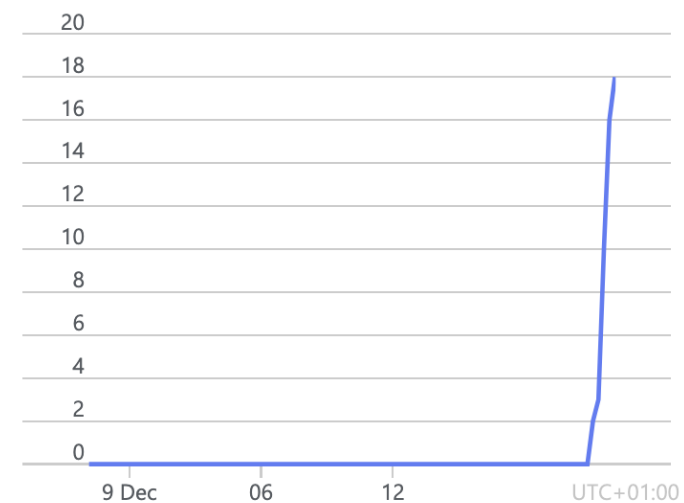
IoT Hub



IoT Hub Usage

- Messages used today: 16
- Daily messages quota: 400000 ⓘ
- IoT Devices: 1

Number of messages used



■ Total number of messages used (Max), ioth... | 18

IoT Hub



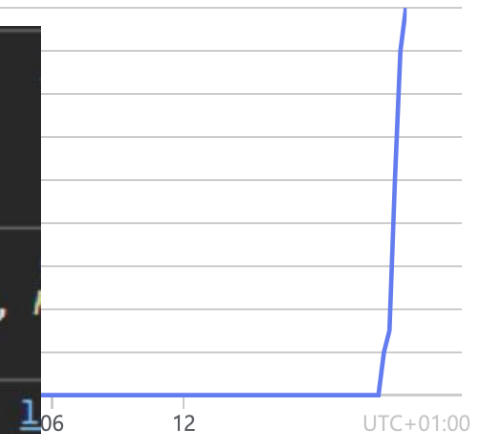
IoT Hub Usage

- Messages used today: 16
- Daily messages
- IoT Devices: 1



Number of messages used

20
18



User ID: 6728ffdd2138fdc4b4eb3233

Home ID: 2

Room ID: 1

Device ID: 2

Telemetry received:

```
{userId: '6728ffdd2138fdc4b4eb3233',  
  iceId: '2', newState: false}
```

Real-time device update:

```
{userId: '6728ffdd2138fdc4b4eb3233',  
  iceId: '2', newState: false}
```

Sending data to Azure Function

Command sent: Message sent
successfully.



Live Demo



Limitations and risks

Security concerns

Limited to
400.000
messages per day

Final steps





Questions

See you soon!

DECEMBER 17TH, 2024
FINAL DELIVERY



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