Safe, warm , well, connected

Louise Rogerson Howz co-founder with Alan, Howz customer

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Data sources

Smart Home

Hub

Socket (+ range extender)

Motion, temp, light

Door, temp

Button

Vibration, temp

Smoke

White labelled from OEM

Many other devices available e.g. RFID, keypad flood, humidity, C0

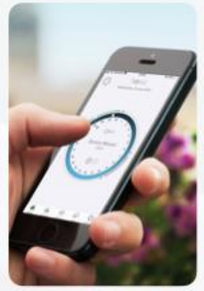
Zigbee 3.0 2.4 GHz

Smart Meter

Electricity

Water

Mobile device



Medical devices

Pulse Oximeter

Thermometer

Scales

Blood Pressure

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Mobile app

Shows periods of activity in last 12 hours. Green dots show how long before low activity notification.

See current status on all data sources

Day's routine from machine learning that sets framework of notifications

Controls family access and shows when they last looked at data

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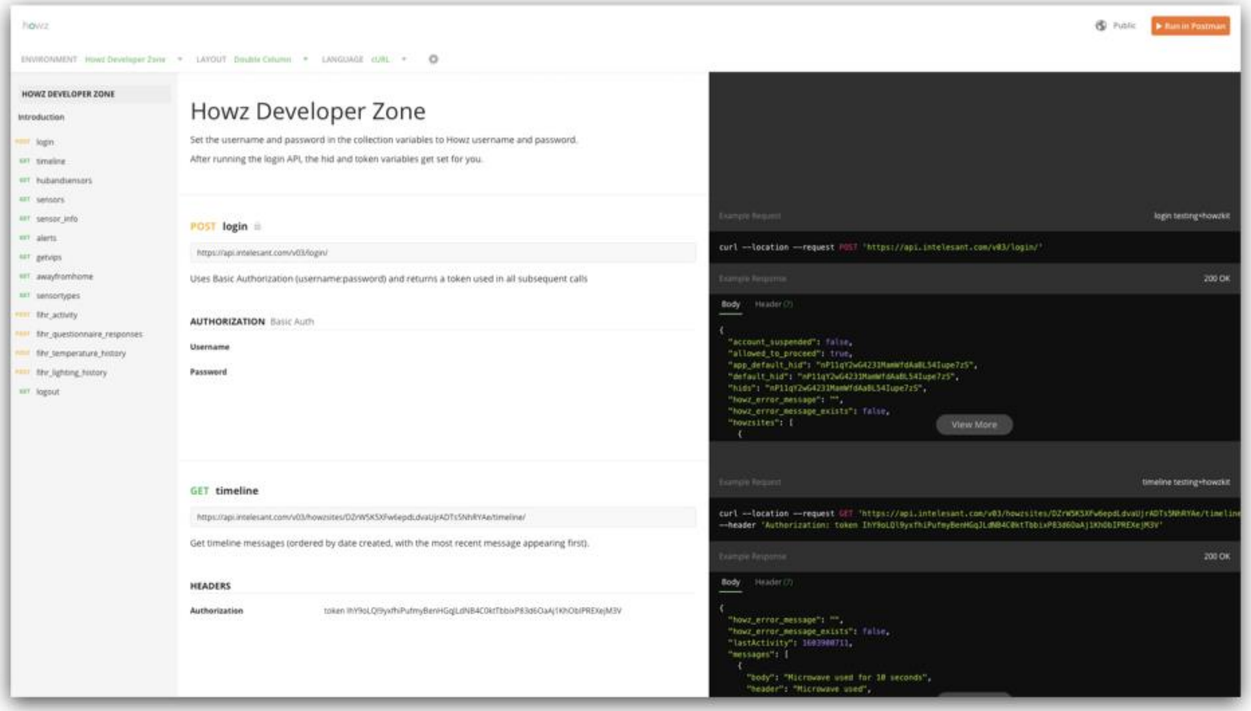
Interoperable

Open API

Push to Alarm Receiving Centres e.g. Astraline (UMO), Dementia Research Institute



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COVID-19: Family and professionals working together

Patient

Smart Home Kit

Tablet

Thermo

Pulse Ox

2,000 patients, 1,000 homes
Self installed kit in a box

Analytics and triage

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- Kit sourcing and logistics
- First line support and customer service
- Integrates incoming IoT, questionnaire data
- Run ML algorithms to define and track routine
- Provides platform

Family & carer

Daily routine, **adherence** & **anomalies**

Reduce anxiety

Monitoring Team

Changes & vital signs

Priority cases only

NHS
Surrey and Borders Partnership
NHS Foundation Trust

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Key results & findings

Social Outcomes

42%
Reduction in risk of care home admission due to TIHM

60%
of TIHM users feel less anxious since joining the service*

CO_2
70kg of CO2e emissions saved per TIHM user per year

**Based on questionnaire responses of 16 people with dementia and 6 caregivers.*

Patient Outcomes

13%
Reduction in ambulance callouts

32%
Reduction in emergency admissions

23%
Reduction in inpatient stays in hospital

27%
Reduction in attendees that required no treatment

Economic Outcomes

£4.8k vs £4.2k
TIHM users incurred lower HRG tariff charges on average

£6.7 million
Potential gross saving to local authorities over 5 years by reducing care home placements

£1.10
5 year Return on Investment for every £1 spent

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Thank You

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