
Team 7

**DXC HackIT
with Autism together**

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The goal

Use data from a worn biometric device to enrich the lives of people with autism and enable carers to respond to and pre-empt meltdowns.



Meet the User.

700,000 people on the autism spectrum in the UK

Including the families, autism is a part of daily life for 2.8 million people

Our solution

1. Scales up

Using AWS tools including:

Kinesis

Kinesis Data Analytics

Kinesis FireHose

Lambda

Elastic Cloud Search

2. Keeps your data safe

All collected data is stored and backed up safely in S3

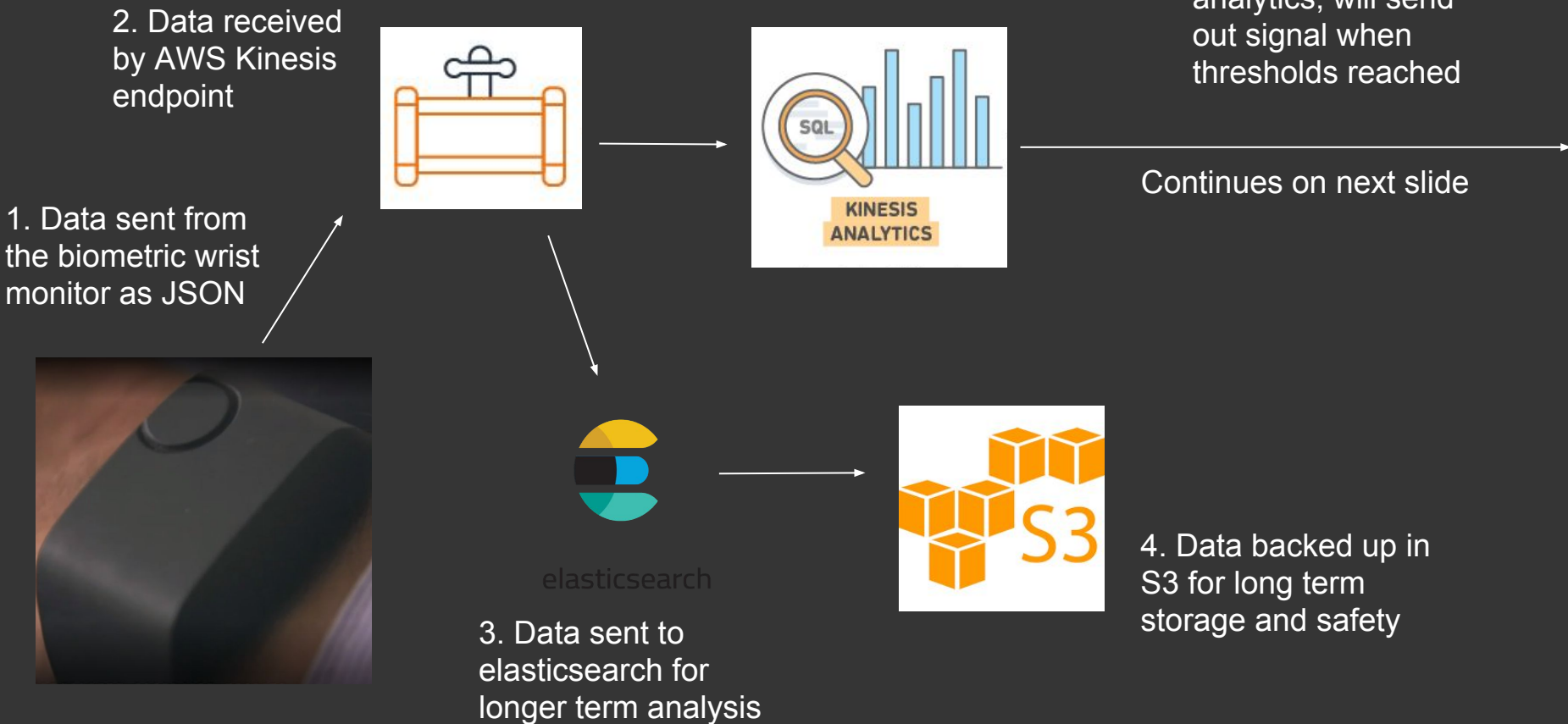
3. Works in real time

Data is analysed as a real-time stream

Does it work?

Not yet.

The solution

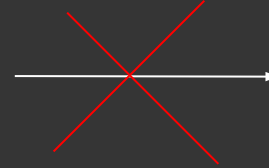


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4. Stream fed back in to kinesis to allow distribution to other AWS services



6. Alexa receives notifications from lambda



5. Lambda triggered when thresholds are reached to send out notifications

Solutions to the Alexa push notification problem

- 1. Use an Alexa skill to query data instead of push notifications**

Requires setting up an endpoint that is persistent for Alexa to contact

- 2. Use something other than Alexa**

For example send a text message to the carers instead

- 3. Apply to the developer preview for Alexa push notifications**

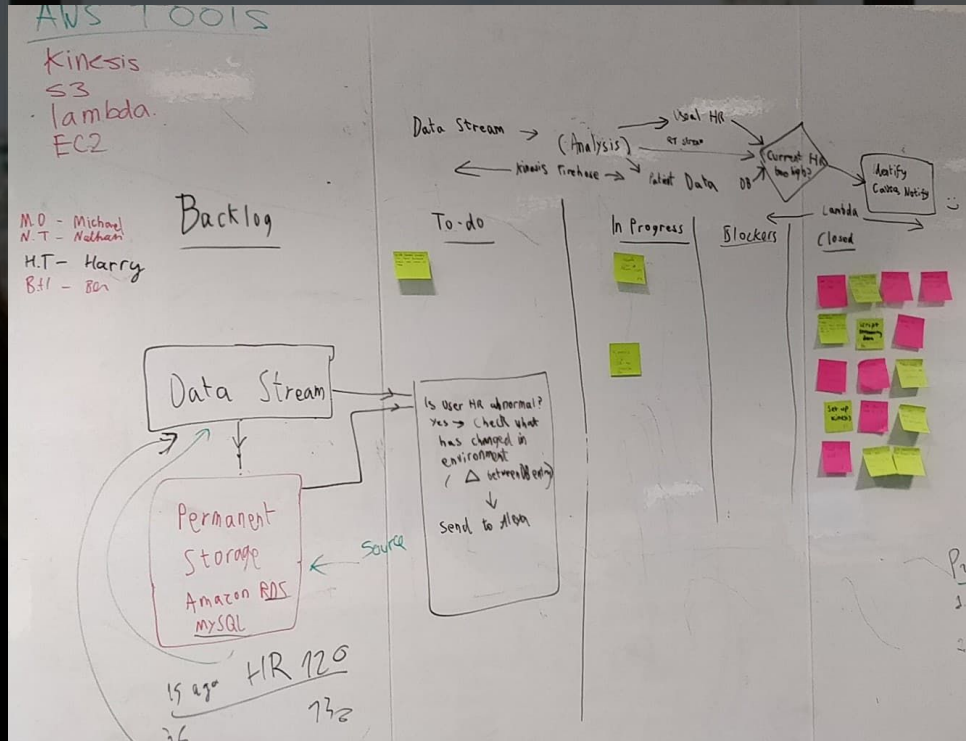
Unfortunately not possible in the timescale for the hackathon - but this would be most preferable

Alexa demo

Threshold monitoring Pseudocode

<https://github.com/ckinson/DTC-Hackathon-Team7/blob/master/Docs/Pseudocode%20for%20Threshold%20Alexa%20Triggers.md>

Kanban



- Increase collaboration
- Helped keep track of issues and blockers
- Enabled everyone to see each others contributions
- Satisfaction of seeing items closed off

Any Questions?

