A new frontend for openHAB

Hochschule Darmstadt, 25 May 2019
Smart Home Day
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Timeline

- October-December 2018 (Smart Home Day, openHAB Foundation board meetings):
  early discussions about replacing Paper UI
- January 2019: early prototype
- February 2019: approved by the Architecture Council
- April 2019: Technology & vision approved by the UI team
...
- Planned to ship with the next major openHAB version
Design goals & vision

- Provide openHAB with a best-in-class “default” UI
  - Differentiation factor & appeal (Material Design + iOS look & feel)
- Reduce the fragmentation & overlapping of functionality spread among several (web) interfaces:
  - 2 admin UIs (Paper UI, HABmin)
  - Home page (Dashboard)
  - Sitemap viewer (Basic UI)
- Mobile (phones/tablets) as a first-class citizen
  - Add to home screen & Cordova apps
  - “Native app” feeling - but supplementing, not replacing native apps!
  - Not compromising on the desktop experience
Architectural principles

- Capitalize on well-known, battle-tested frameworks & techniques:
  - VueJS (HABot, website...)
  - Single-file components
  - Framework7 as components framework (https://framework7.io)
  - ECharts...
- Avoid over-engineering and another maintainer-less situation: reduce the barrier to entry for contributors
  - Clear folder structure from the start, avoid unnecessary layers, easy to use testing infrastructure
Unit (Jest) & E2E (Cypress) tests

npm run test:unit
npm run test:unit:watch

npm run test:e2e
npm run test:e2e:gui
Try it!

Temporary repo with current code:

https://github.com/ghys/openhab-ui-f7

(PR to openhab/openhab-webui will follow when feature complete & stabilized)

Regularly deployed to:

https://tiny.cc/ohdemo

(be gentle! real demo openHAB instance behind - writing restricted w/o authentication)
DEMO!

See it in action:
https://vimeo.com/342616345