

Datastore App Revamp: Dev Process

Diana Nanyanzi 30th January, 2025



What is the datastore

 A schemaless JSON store for your app's arbitrary data exposed through the API.

Supports:

- Global datastore
- User datastore

Namespaces:

- Apps can optionally reserve namespaces;
- User's access to a reserved namespace is dependent on their access to the app
- Keys, values: data is stored in key-value pairs



Current DataStore App

- Supports only the global datastore
- Setup:
 - Libraries: material ui, redux
 - Tools: deprecated d2 library
 - UI/UX: old and unscalable
- Demo:

https://debug.dhis2.org/2.41dev/dhis-web-datastore/index.html#



Reasons for upgrade

- New api features:
 - Filtering (v.38)
 - Value extraction (v.38)
 - Paging (v.38)
 - Sorting (v.38)
 - Sharing settings not yet available in the app
- Support user datastore

- Updated UI/UX
- Updated libraries/setup
 - App platform (v12)
 - React router (v.6.8+)
 - DHIS2 UI library



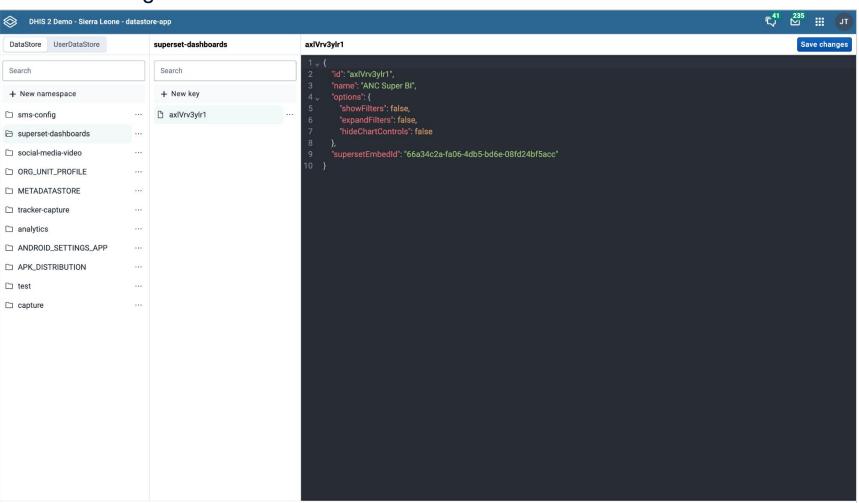
Dev Process

- Assessment of the current app
 - Codebase,
 - o UI
- Design discussions (iterative)
 - Three panel UI
 - Single page layout
 - Two page layout

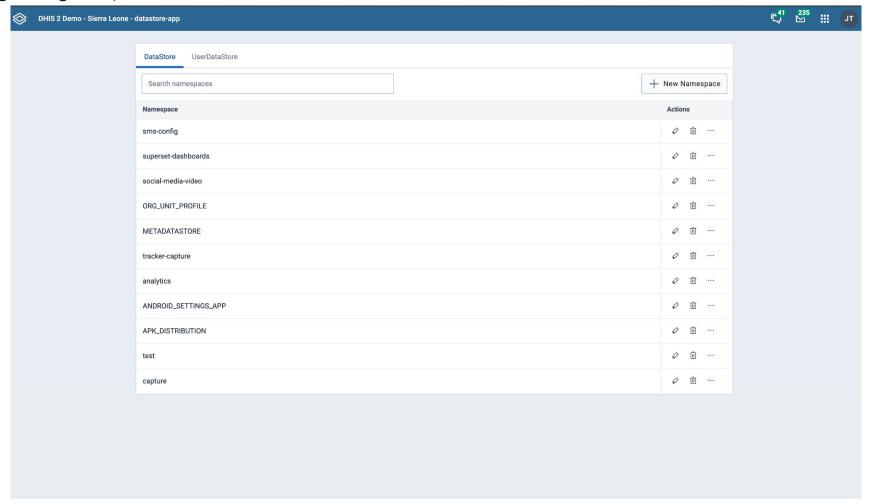
Fast Prototyping

- App platform (v.12) with Vite
- TS + TS template
- App runtime
- UI library

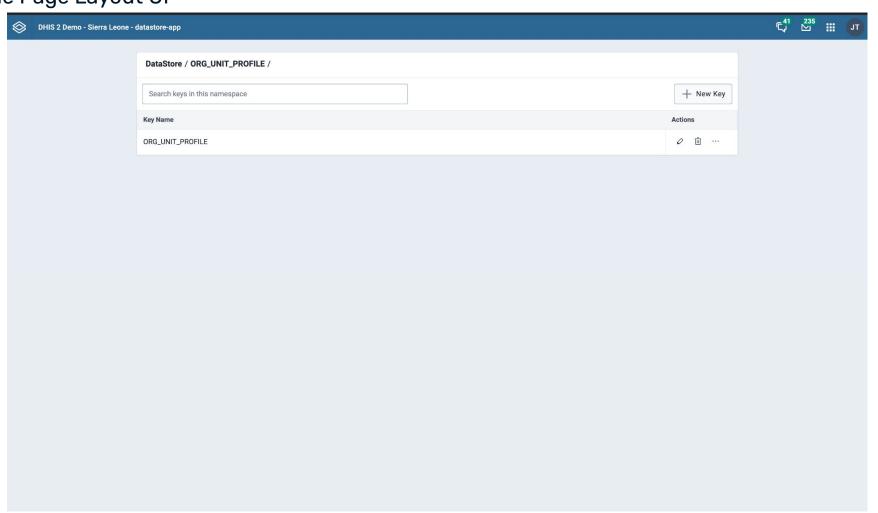
Three Panel UI Design



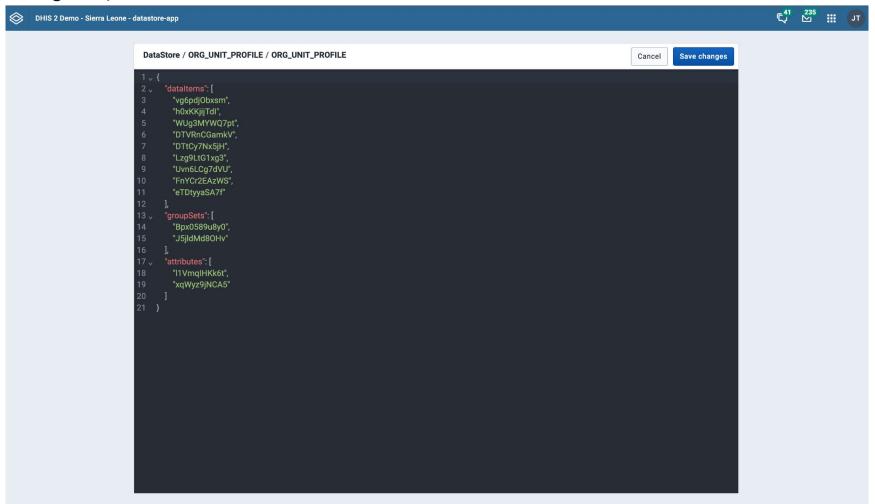
Single Page Layout UI



Single Page Layout UI



Single Page Layout UI





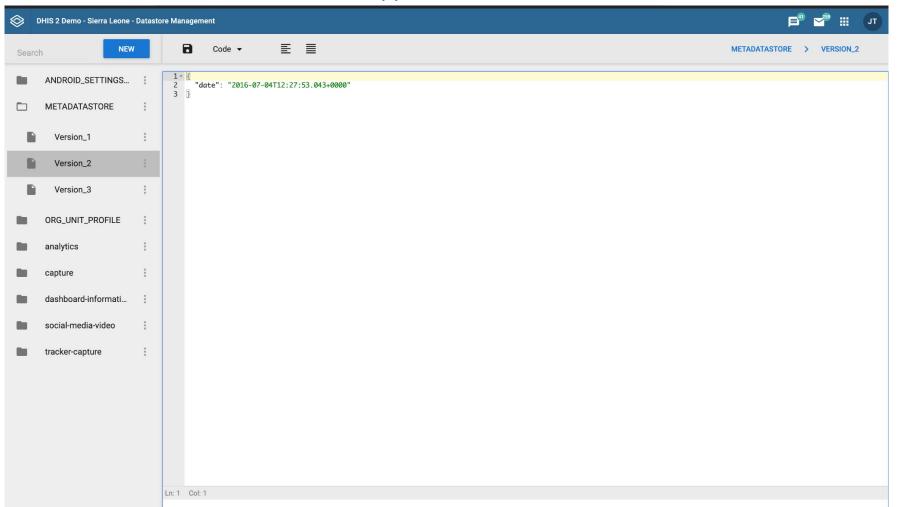
Demo

Two page layout: https://pr-139.datastore.netlify.dhis2.org/

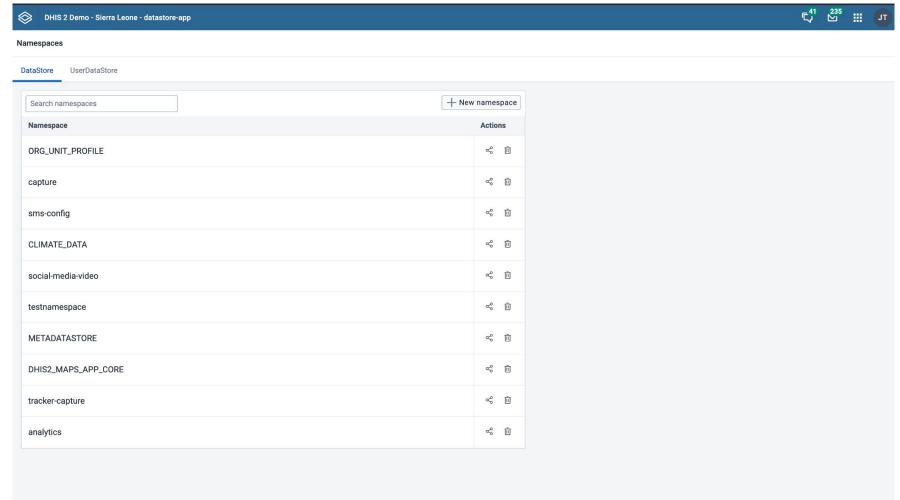
Others:

- Three panel layout: https://pr-137.datastore.netlify.dhis2.org
- One page layout: https://pr-136.datastore.netlify.dhis2.org/

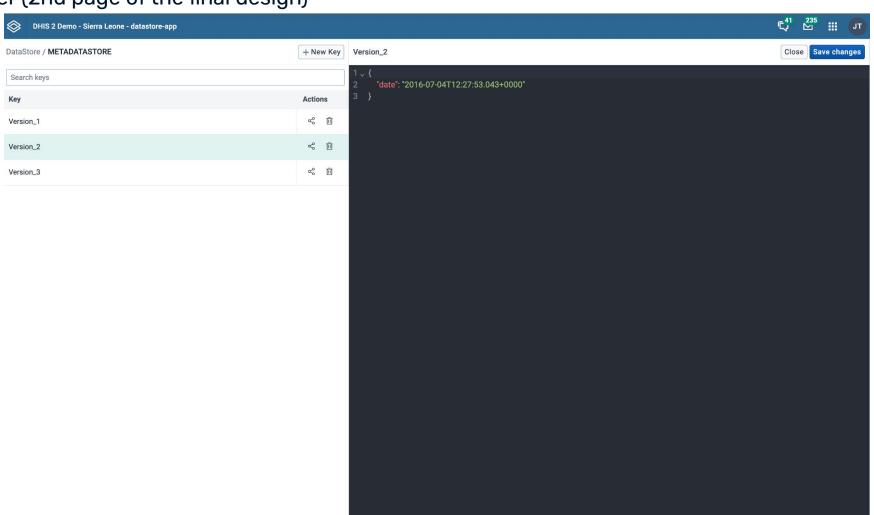
Before (current version of the datastore app)



After (1st page of the final design)



After (2nd page of the final design)





What's new...

- Same functionality, better UI/UX
- No tree view in the editor
- New features both datastores supported
- Future:
 - Sharing settings (coming soon)
 - New API feature integrations
 - Downloads
 - V.42



Any Questions/Feedback?

Channels:

- Github: https://github.com/dhis2/datastore-app/tree/beta
- Community of Practice