

2022-08-16

Upgrading and updating the hpge-radiopurity.snolab.ca SNOLAB material database

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on Summer Co-op Term

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Goal For Work Term

hpge-radiopurity.snolab.ca database updated with all the measurements from the HPGe counters running underground at SNOLAB.

Upgrade the material database with more features such as a new backup process.

Overview

- Excel spreadsheets
 - Difficulty searching

- Created Python conversion script to convert .csv to .json to upload onto database

- HPGe Database
 - Easier to search for measurements

.json File Format

- Material Assay Data Format (MADF)
- Python conversion script retrieves data from excel spreadsheets and formats it as seen in Figure 1

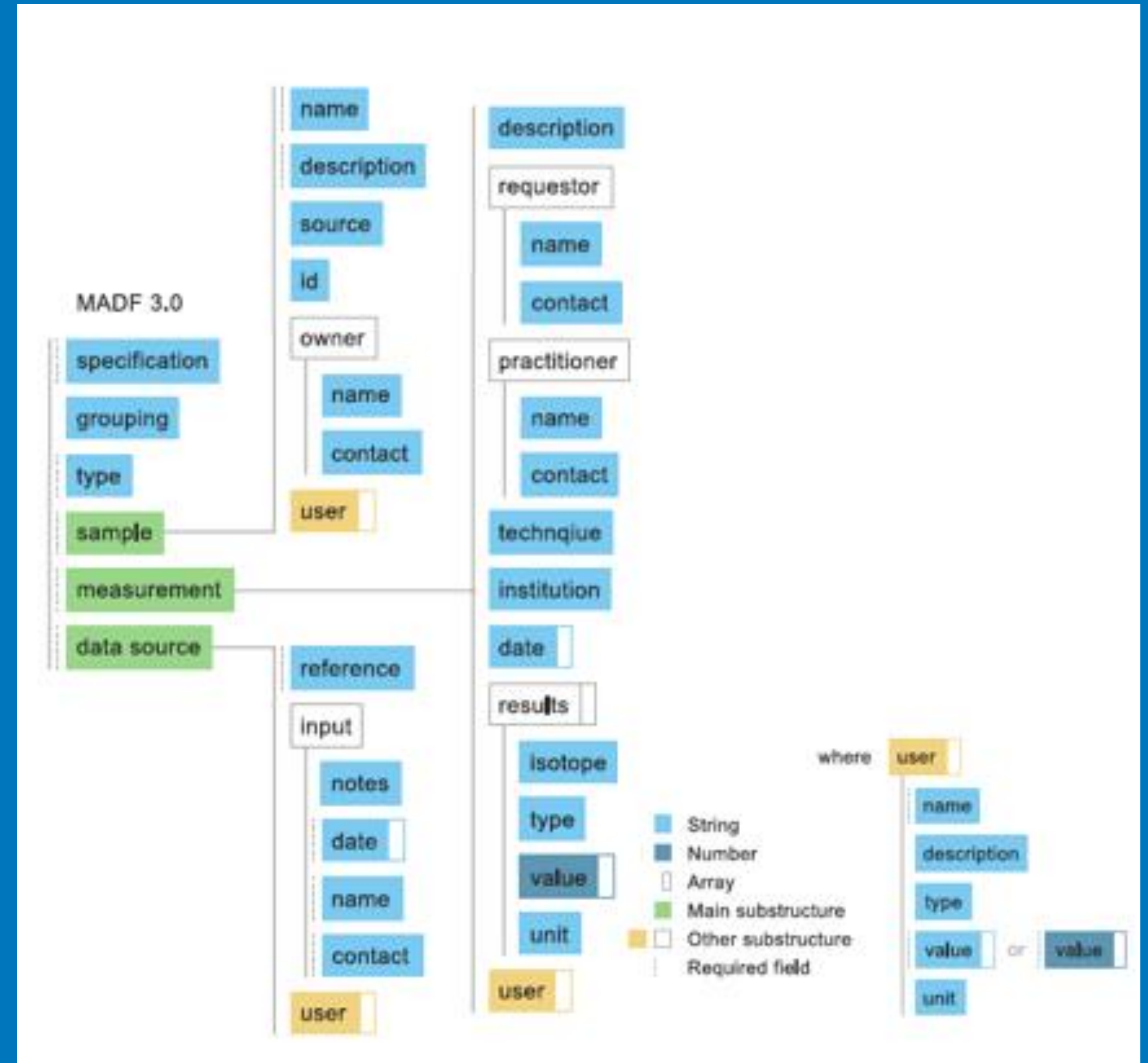


Figure 1

Let's look at how the database works and the features that it includes:

https://hpge-radiopurity.snolab.ca/simple_search

Questions?