Contribution ID: **81** Type: **Workshop or Hackathon**

NFDIxCS-HackaThon: Constructing a Research Data Management Container and its Platform

Tuesday, March 5, 2024 8:30 AM (3h 30m)

The Research Data Management Container (RDMC) is a key element of the NFIDxCS architecture. To integrate diverse communities into the requirements engineering process, we conduct a series of HackaThons. This HackaThon is a part of the initiative, aiming to engage the community of researchers and research software engineers. Given the architecture's complexity, developing a prototype is essential to demonstrate the critical components and the overall NFIDxCS system for managing RDMCs. This practical, hands-on workshop will contribute to enhancing and expanding the conceptual version of the RDMC and its associated platform. In the workshop, we use a modularized approach to allow flexible engagement in the hacking over the course of the day and includes the following thematic areas:

1. Development environment (django, python, git)
2. Outline of the existing work: prototype in terms of concepts and implementation
3. Outline of the strategic process and the particular aims of the day
4. Brainstorming and division of tasks and efforts
5. Work with a few regular stand up meetings
6. Collection and Integration of work results
7. Further proceedings and conclusion

The state of the work on the RDMC and platform can be characterized as a prototype based on already existing work done by the authors by the end of November 2023. There will be further steps in the development leading to a kind of bare bone version the RDMC and platform realizing basic functionality realizing the concepts from (1,2).

The preparation will include a set of questions aimed at extending the basic functionality. The following list serves as a starting point to guide the discussion on specific topics chosen for the HackaThon:

- How to turn the basic version in a template mechanism including operations to instantiate a template?
- What specific mechanisms are necessary to create (sub)discipline-specific templates for predefined use cases or examples (e.g., from disciplines like Human-Computer Interaction, Software Engineering)?
- What fundamental concepts should be introduced to incorporate dimensions like privacy, access roles, and security?
- What workflows are required to ensure foolproof access for different roles in the research data lifecycle?
- Extending the existing fundamental concepts to offer additional views to foster the FAIR principles

To capitalize on the results of the HackaThon, they will be integrated into the existing prototype in a git repository.

A brief report for the general interested public will be published on the NFDIxSC (https//www.nfdixcs.org) website as well.

(1) Goedicke,Michael; Lucke,Ulrike (2022): Research Data Management in Computer Science - NFDIxCS Approach. INFORMATIK 2022. DOI: 10.18420/inf2022_112.

(2) Firas Al Laban; Jan Bernoth; Michael Goedicke; Ulrike Lucke; Michael Striewe; Philipp Wieder; Ramin Yahyapour (2023): Establishing the Research Data Management Container in NFDIxCS. Vol. 1 (2023): 1st Conference on Research Data Infrastructure (CoRDI) DOI 10.52825/cordi.v1i.395

Slot length

other(help with comment)

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