

CERN-Solid code investigation

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Presentation at [the December 2020 Solid World](#)

Overview

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Introduction

Integration of Solid principles into software from CERN.

Getting Started with Solid at CERN

- CERN the birthplace of the Web
- Many sophisticated software projects at CERN
 - Already open source
 - Operational status (tens of thousands of users)

What Is Indico and Why Can It Be a PoC for Solid?

- Open-source tool for event organisation, archival and collaboration
- Resilient and reliable for over 20 years
- No incentive for user data in modules of
 - Conference registration
 - Meeting comments

“Indico is used every day at CERN to manage more than 600,000 events of different complexities and 200 meeting and conference rooms.”

CERN-Solid presentation at the December 2020 Solid World

by Jan Schill (itu.dk) , Maria Dimou (CERN)

Thursday 3 Dec 2020, 16:00 → 17:00 Europe/Zurich

Description

The talk is prepared for the December 2020 Solid World webinar.

This is a monthly event where Solid implementors share their experience.

All material and recording will be linked from [the Solid events' index](#).

The talk is about the reasons and status of [the CERN-Solid code investigation project](#).

Progress is monitored in https://github.com/janschill/uni-research_project

Indico - what is - <https://getindico.io/>


Indico - the repo - <https://github.com/indico/>

Please contact Maria Dimou for further information on [the CERN-Solid collaboration](#).


Contact

[CERN-Solid present...](#) [The same presenta...](#)

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Project Scope and Approach

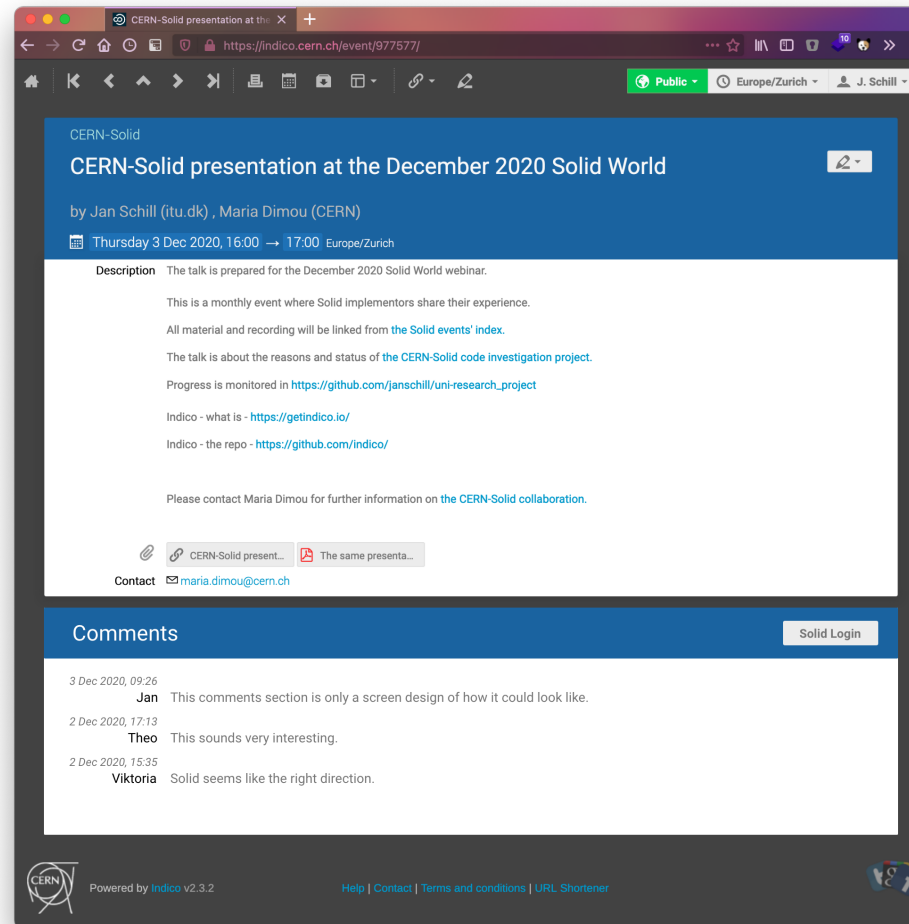
1. **Review Solid specifications**
2. **Evaluate Solid implementations**
3. **Enrich Indico with Solid principles**
4. Recommendations on Solid adoption in CERN applications
5. Document challenges, advantages, gaps
6. Presentation of proceedings

[GitHub: janschill/uni-research_project](https://github.com/janschill/uni-research_project)

Review Solid Specifications

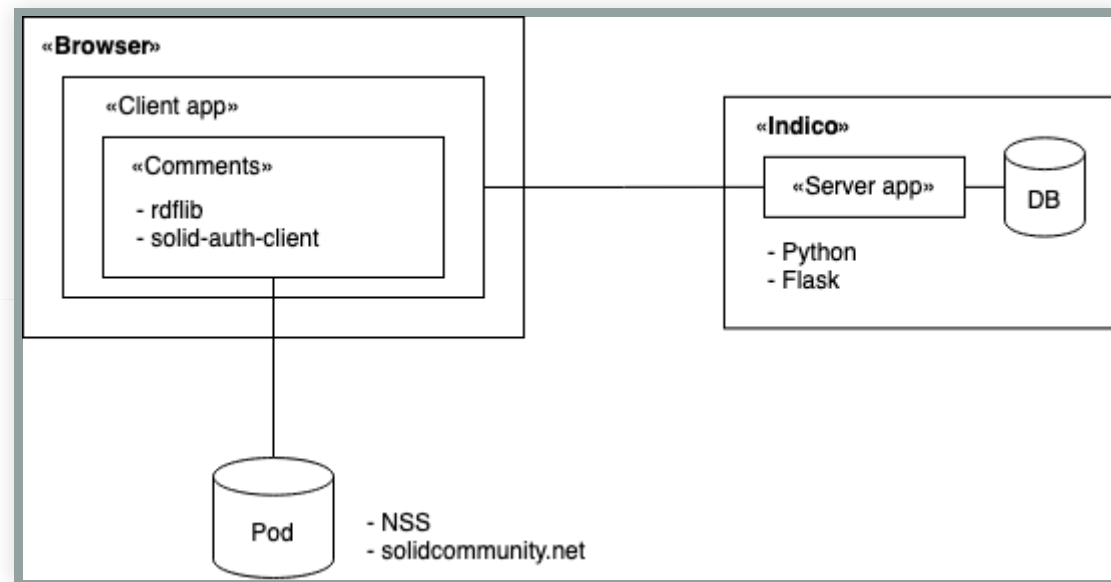
- Comprehensive and high quality
- Work in progress
- Complex

Enrich Indico with Solid Principles



Experimental “Plugin” Implementation

Getting familiar with NSS and RDF



Desired Implementation

1. Indico and Solid account linking
 - Using server-side/OAuth2 flow
2. Read/write data (comments) from/to pods in Indico backend
 - Heavy lifting on the server-side

Conclusion

The success of the [CERN-Solid code investigation project](#) is important:

1. For the MSc thesis at [itu.dk](#) to demonstrate that the implementation works.
2. For CERN to be inspired by the PoC and embrace Solid.

References

- *Thesis description:* <https://it-student-projects.web.cern.ch/projects/cern-solid-code-investigation>
- *Thesis repo.:* https://github.com/janschill/uni-research_project
- *Indico repo.:* <https://github.com/indico/>
- *CERN-Solid entry point:* <https://indico.cern.ch/category/11962/>
- *CERN-Solid chat:* <https://gitter.im/cern-solid/community>