CERN-Solid code investigation

Maria Dimou (CERN) & Jan Schill (IT University Copenhagen)

Presentation at the December 2020 Solid World
Overview

1. Introduction
2. Getting Started with Solid at CERN
3. Project Scope and Approach
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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, ENSACF/Berne

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

This is a monthly event where Solid implementers 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/ves-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: maria.dimou@cern.ch
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
Review Solid Specifications

- Comprehensive and high quality
- Work in progress
- Complex
Enrich Indico with Solid Principles

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by Jan Schill (itu.dk), Maria Dimou (CERN)
Thursday 3 Dec 2020, 16:00 → 17:00, Eurosite/Zurich

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The talk is about the reasons and status of the CERN Solid code investigation project.
Progress is monitored in https://github.com/janachill/wiki-research_project
Indices - what is: https://getindico.io/
Indices - the repo: https://github.com/indico/

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Comments

2 Dec 2020, 09:30
Jan
This comments section is only a screen design of how it could look like.
2 Dec 2020, 17:13
Theo
This sounds very interesting.
2 Dec 2020, 18:33
Victoria
Solid seems like the right direction.
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