indico @ Fermilab

Penelope Constanta

indico Workshop 2.0

18-20 October 2017

Fermilab

- Fermilab is America's particle physics and accelerator laboratory, located North West of Chicago, IL

- Fermilab's 1,750 employees include scientists and engineers from all around the world. Fermilab collaborates with more than 20 countries on physics experiments based in the United States and elsewhere.

- We contact experiments to study Neutrinos (Deep Underground Neutrino Experiment (DUNE) at the Long-Baseline Neutrino Facility (LBNF)), Dark Matter / Dark Energy, Muons, participates at LHC experiments.

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- 2001: Fermilab's Dzero experiment started using CDS Agenda at a server in Holland

- 2006: first indico installation at Fermilab

- 2012 (?): upgrade to indico v0.99
  - Added invenio as indico's search engine
  - Transferred all CDS Agenda events (~18,000) from Holland's servers to Fermilab's indico instance.

- 2017: upgraded v1.2

- At this point Fermilab's indico holds ~30,000 events. The event creation rate has been increased dramatically in the past 2 years.

- We have not implemented a lot of extensions nor customizations, apart from a couple of areas.

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Indico @ Fermilab: **PayPal Itemized Cart**

Needed itemization of the various billable registration entries to be send to PayPal for budgeting and charging purposes.

Category Event Creation Restrictions

- Till December 2016, the Fermilab indico site was open to all users to create events under most of the indico categories.
    - No control of user accounts as only employees and visitors can have Fermilab email.
    - Issues with inappropriate content
- The solution was to restrict event creation to category managers and authorized users
    - Some effort to identify the managers and some of the authorized users.
    - To gain access one needs to contact the category manager(s)
    - Test category is restricted to the Fermi domain.
- A python script runs nightly to enforce the restriction

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Indico @ Fermilab: **ZOOM Videoconferencing IDs**

- We are using ZOOM as our videoconferencing software

- There is no direct connection between indico and ZOOM
    - A person needs to first create the videoconference in ZOOM and then enter the connection ID in indico.

- Due to a particular way that ZOOM is used, we need to collect all the Fermilab ZOOM IDs entered in indico
    - ZOOM IDs can be entered in any text field

- A python script runs nightly, collects any new ZOOM IDs since the last run and sends ZOOM and indico event information.

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Indico @ Fermilab: **Upgrading to indico v1.2**

- Upgrading from indico version 0.99 to v1.2
  - Getting all the required packages in RHEL 7, proved to be challenging
    - Still missing LaTex
      So, we cannot create book-of-abstracts and other PDFs that require LaTex

- Lots of issues installing invenio (our indico's search engine) on RHEL 7… gave up and used the existing invenio instance on RHEL 6. Had to fix minor issues with the XML validation.

- Our users love the Single Sign On (SSO), it works great but they want more:
    - SSO logout returns to indico home page. It would be nice to return to current page.

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Indico @ Fermilab: **Next Steps**

- Fix current issues with LaTex

- Upgrade to indico v2.0 as soon as possible
  - Use our centrally managed PostgreSQL databases
  - Utilize the mirroring infrastructure of our central web servers

- Replace invenio with a different search engine
  - One candidate is the one we are going to be using for MediaWiki - Lucene
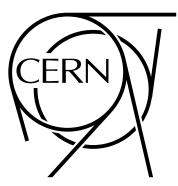   - https://lucene.apache.org/core/

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Collaborations / Partnerships / Members

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