Ontology Summit 2014 Big Data and Semantic Web Meet Applied Ontology

Track E: Hackathon Preliminary results

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What happened

- 6 individual Hackathon projects had happened!
- 47 participants had fun of collective hacking.
- Most of the projects have taken 2 days, and some of them 3 days to get results.
- Most of produced during Hackathon Event artifacts (e.g. ontology files, code snippets, etc.) are available at a individual projects public repositories.
- Preliminary reports have published and discussion of results have started.
- Final reports are under development now and will be presented to Ontology Summit community at the 2014 Symposium

1. Reference data for Anime and Manga: Semantic Linking and Publishing of Diverse Data-Sets

Project roster page: http://ontolog.cim3.net/cgi-bin/wiki.pl?OntologySummit2014 Hackathon ReferenceDataForAnimeAndManga

Team: 9 participants from Russia, Belorussia, Switzerland, Germany. Team lead: VictorAgroskin

Results: http://github.com/ailev/anird (reference data from 2 anime online databases in ISO 15926 format, ontology patterns for semantization, data fetching and conversion code)

2. Ontology Design Patterns and Semantic Abstractions in Ontology Integration

Project roster page: http://ontolog.cim3.net/cgi-bin/wiki.pl?OntologySummit2014 Hackathon DesignPat ternsAndAbstractions

Team of 9 participants from Australia, Russia, Italy, France, England and the US (East and West coast). Team Lead: MikeBennett

Results: «sufficient information to specify the ontology and design for a simple travel risk mobile application in which the user may enter a desired time and destination and either enter different travel modes or have these calculated by existing applications which already do this; the application would return comparative risk figures for the different travel options».

3. Optimized SPARQL performance management via native API

Project roster page: http://ontolog.cim3.net/cgi-bin/wiki.pl?OntologySummit2014 Hackathon OptimizedSPARQLvia NativeAPI

Team 5 participants from Russia. Team leads: VictorChernov

Results: «Before we started these experiments, we had the belief that RDF databases are slow. The experiments revealed that RDF databases are developing and performance is growing. For example, query 20 and further results show that RDF storages perform fast and can compete with SQL databases. In future we plan joint testing of SQL and RDF databases.

... Comparison of the results showed that NitrosBase is performance leader on practically all queries. Virtuoso sure takes 2nd place. Stardog takes 3rd, but it does not mean that the last is poor. All 3 triplestores are indisputable performance leaders».

4. Ontohub consolidation

Project roster page: http://ontolog.cim3.net/cgi-bin/wiki.pl?OntologySummit2014 Hackathon OntohubC onsolidation

Team: 10 participants locally and 1 remote. Team Lead <u>TillMossakowski</u>

Results: from 22 open issues for milestone "FOIS Competition" to only 4 (https://github.com/ontohub/ontohub/issues?milestone =12&state=open). «One particular nasty bug (https://github.com/ontohub/ontohub/issues/576), in the analysis of which we already had invested a lot of time, could be solved with a one-liner; this probably only was possible through so many people working together for a whole day».

5. Semantic Annotation of the Ontolog Community Environment (SAOCE)

Project roster page: http://ontolog.cim3.net/cgibin/wiki.pl?OntologySummit2014 Hackathon OntologSemanticAnnotations

Team: 9 participants. Team lead: KenBaclawski

Results: https://github.com/baclawski/saoce (test

website: http://ontolog-

test.cim3.net/wiki/WikiHomePage).

6. An ontological catalogue of ontology and metadata vocabulary characteristics relevant to suitability for semantic web and big data applications

Project roster page: http://ontolog.cim3.net/cgi-bin/wiki.pl?OntologySummit2014 Hackathon Ontologic alCatalogue

Participants: 5 from USA and Malaysia. Team lead: AmandaVizedom

Results: https://github.com/vocref/vocref (both ontology files and issues). «Many representations and concepts related to ontologies and evaluation, from a variety of sources, were considered and weeded out (as, for example, out-of-scope or specific to the assumptions and focus or their original context, or of dubious quality in one way or another). As a result, we arrived at a satisfyingly solid vocref-top, where work will continue».

What next

- If you have any questions, please get in touch. You can use the Ontology Summit List (ontology-summit@ontolog.cim3.net) to post your suggestions. Also you can use wiki (http://ontologySummit2014 Hackathon CommunityInput) or contact the Hackathon organizers to help refine your ideas or look for advise and collaborators.
- Current state of affairs you always can see at http://ontolog.cim3.net/cgibin/wiki.pl?OntologySummit2014 Hackathon roster and individual project pages that linked from this page.

See you on Symposium 28&29 of May 2014!

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