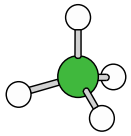
Center for Open Middleware

Building interoperable read-write Linked Data applications with the W3C Linked Data Platform and the LDP4j framework

ESWC 2015 - May 31st , 2015 - Portoroz (Slovenia)



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Who we are (I)

- **Miguel Esteban Gutiérrez**
  - Software engineer/architect @ *Center for Open Middleware (Universidad Politécnica de Madrid)*
  - Member of the Ontology Engineering Group
  - *Lead developer of LDP4j*
  - Interests:
    - Enterprise-grade Linked Data-based application integration,
    - Service-oriented architectures, and
    - RESTful designs and architectures for RDF management
  - Participate in standardization bodies
    - W3C LDP WG (editor of LDP Best Practices and Guidelines)
    - OGF DAIS WG
  - Collaborate in European and Spanish research projects:
    - SEALS, España Virtual, OntoGrid, Esperonto
  - Collaborate in Spanish innovation projects
    - **Smart Developer Hub**, ALM iStack

Who we are (II)

- **Nandana Mihindukulasooriya**
  - Doctoral candidate @ *Ontology Engineering Group (Universidad Politécnica de Madrid)*
  - Committer, PMC, and Mentor @ Apache Software Foundation
  - Interests:
    - Linked Data-based application integration,
    - Service-Oriented Architectures, and RESTful designs
    - Linked Data quality, and transactions
  - Participation in standardization bodies
    - W3C LDP WG
      - Editor of LDP 1.0 Primer, LDP Best Practices and Guidelines
    - OASIS
      - WS-FED, WS-SX
  - Collaborate in European and Spanish research projects:
    - 4V, LIDER (FP7-610782), SEALS (FP7- 238975)
  - Collaborate in Spanish innovation projects
    - ALM iStack

Objectives of the tutorial

- Understand the basics of Linked Data Platform specification
- Learn how LDP can be used to build interoperable read-write Linked Data applications
- Understand the design considerations of read-write Linked Data applications
- Learn how build read-write Linked Data applications using the LDP4j framework

Structure of the tutorial

- **Introduction to LDP (60 minutes)**
- **Design considerations for interoperable read-write Linked Data applications (15 mins)**
- **LDP4j 101 (30 mins)**
- **Hands-on (50 mins)**
  - *Recipe for using LDP4j*
  - *An example read-write Linked Data application with LDP4j*
- **Concluding remarks (10 mins)**

Bill of materials

- **Slides:**
  - http://www.ldp4j.org/tutorials/eswc2015/
- **Source code:**
  - LDP4j: http://github.com/ldp4j/ldp4j
  - Hands-on: http://github.com/ldp4j/eswc2015-tutorial
- **Requirements for the hands-on**
  - JDK 1.6+
  - Maven 3.x
  - Any IDE (Eclipse, IntelliJ, etc.)
  - A Git client
  - REST client add-on for your preferred browser