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Center for Open Middleware / Ontology Engineering Group

Universidad Politécnica de Madrid,

Spain.

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

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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, SEALS
 - 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.ldap4j.org/tutorials/eswc2015/>

- **Source code:**

- LDP4j: <http://github.com/ldap4j/ldap4j>
- Hands-on: <http://github.com/ldap4j/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