CERN Service XML is a small library to generate a CERN XSL Service XML.
The CERN Service XML package is on PyPI so all you need is:

```bash
$ pip install cernservicexml
```
Creation of XSLS service documents.

Usage:

```python
>>> from cernservicexml import ServiceDocument
>>> doc = ServiceDocument('zenodo')
>>> doc.add_numericvalue('users', 1000, desc="Number of users")
>>> xml = doc.to_xml()
```

Publishing of service documents.

Usage:

```python
>>> from cernservicexml import ServiceDocument, XSLSPublisher
>>> doc = ServiceDocument('myserviceid')
>>> XSLSPublisher.send(doc)
<Response [200]>
```
class cernservicexml.document.ServiceDocument (service_id, availability=100, timestamp=None, availabilitydesc=None, contact=None, webpage=None, availabilityinfo=None)

XSLS Service Document class.

Parameters

- **service_id** – A unique service id.
- **availability** – An integer 0-100 indicating availability of service. Default: 100.
- **timestamp** – Timestamp when the availability was calculated. Must be a datetime object. Default: now.
- **availabilitydesc** – Information about the availability.
- **contact** – Service contacts a string.
- **webpage** – Service website (any URI)
- **availabilityinfo** – Information about the service. Can contain HTML.

add_numericvalue (name, value, desc=None)

Add a numeric value metric.

Parameters

- **name** – Numeric value id.
- **value** – An integer, float or Decimal object.
- **desc** – A description.

**to_xml**()

Serialize service document to XML.

class cernservicexml.publisher.XSLSPublisher

Publish a service document to an XSLS service.

classmethod send (document, api_url='http://xsls.cern.ch')

Send service document to XSLS.
CHAPTER 4

Changes

Version 0.1.2 (released 2015-06-17)
  • Adds support for long (Python 2) integers.

Version 0.1.1 (released 2015-06-17)
  • Fixes issues with POST request for sending the service XML to XSLT.
  • Adds doctests to ensure documentation examples works.
  • Adds XML validation tests according to XSD Schema.

Version 0.1.0 (released 2015-06-16)
  • Initial public release.
Bug reports, feature requests, and other contributions are welcome. If you find a demonstrable problem that is caused by the code of this library, please:

1. Search for already reported problems.
2. Check if the issue has been fixed or is still reproducible on the latest master branch.
3. Create an issue with a test case.

If you create a feature branch, you can run the tests to ensure everything is operating correctly:

```bash
$ ./run-tests.sh
```
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### 6.1 Authors

Contact us at info@invenio-software.org

- Lars Holm Nielsen <lars.holm.nielsen@cern.ch>
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