2차 학술지 편집인 워크숍

2011년 9월 20일 (화)

CrossRef DOI XML 작성 및 처리 실습

한국과학학술지편집인협의회

김우현

Digital Object Identifier (DOI)

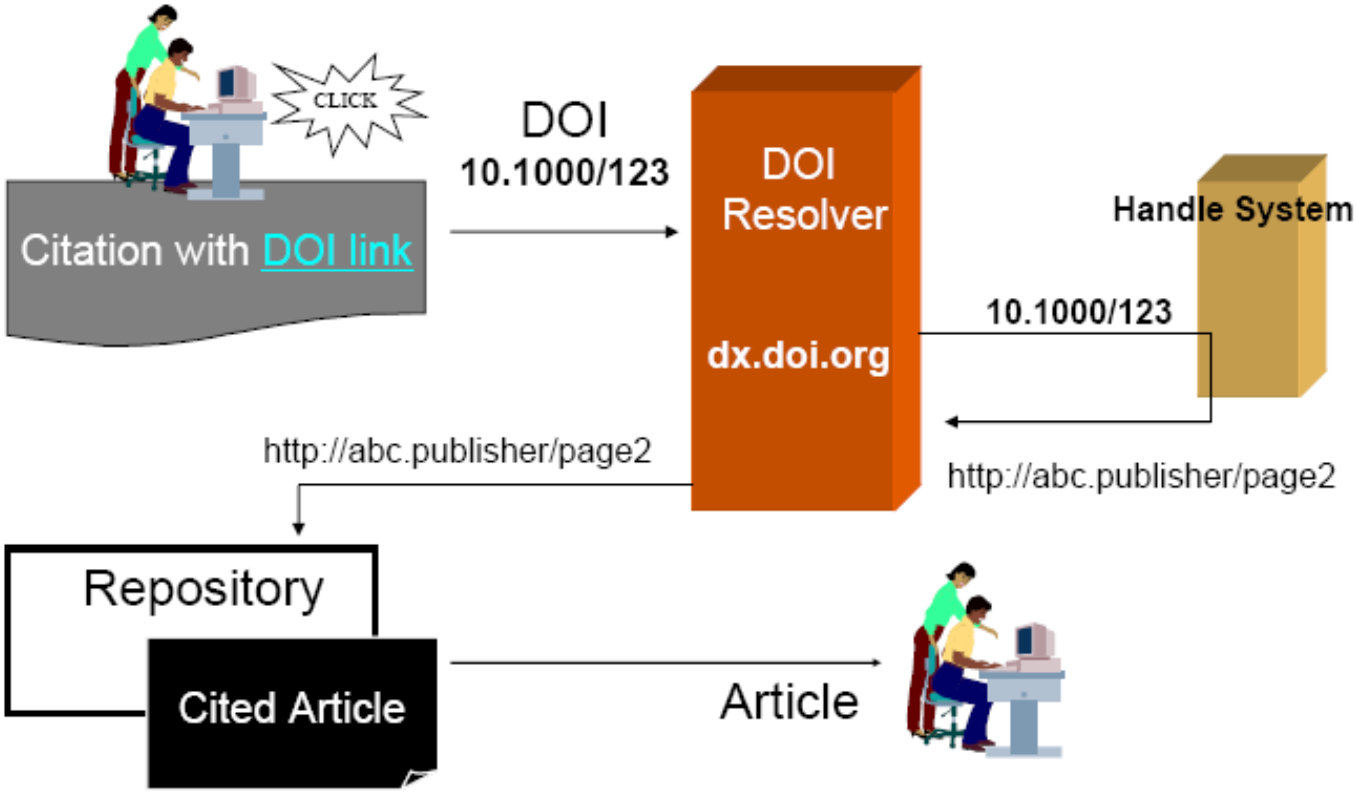
- **DOI 는**
  온라인상의 디지털 지적 재산에 부여하는 고유의 식별번호

- **DOI 구조**
  Prefix + "/" + Suffix
  IDF에서 부여 Publisher가 부여
  예 - 10.3352/jeehp.2011.8.1

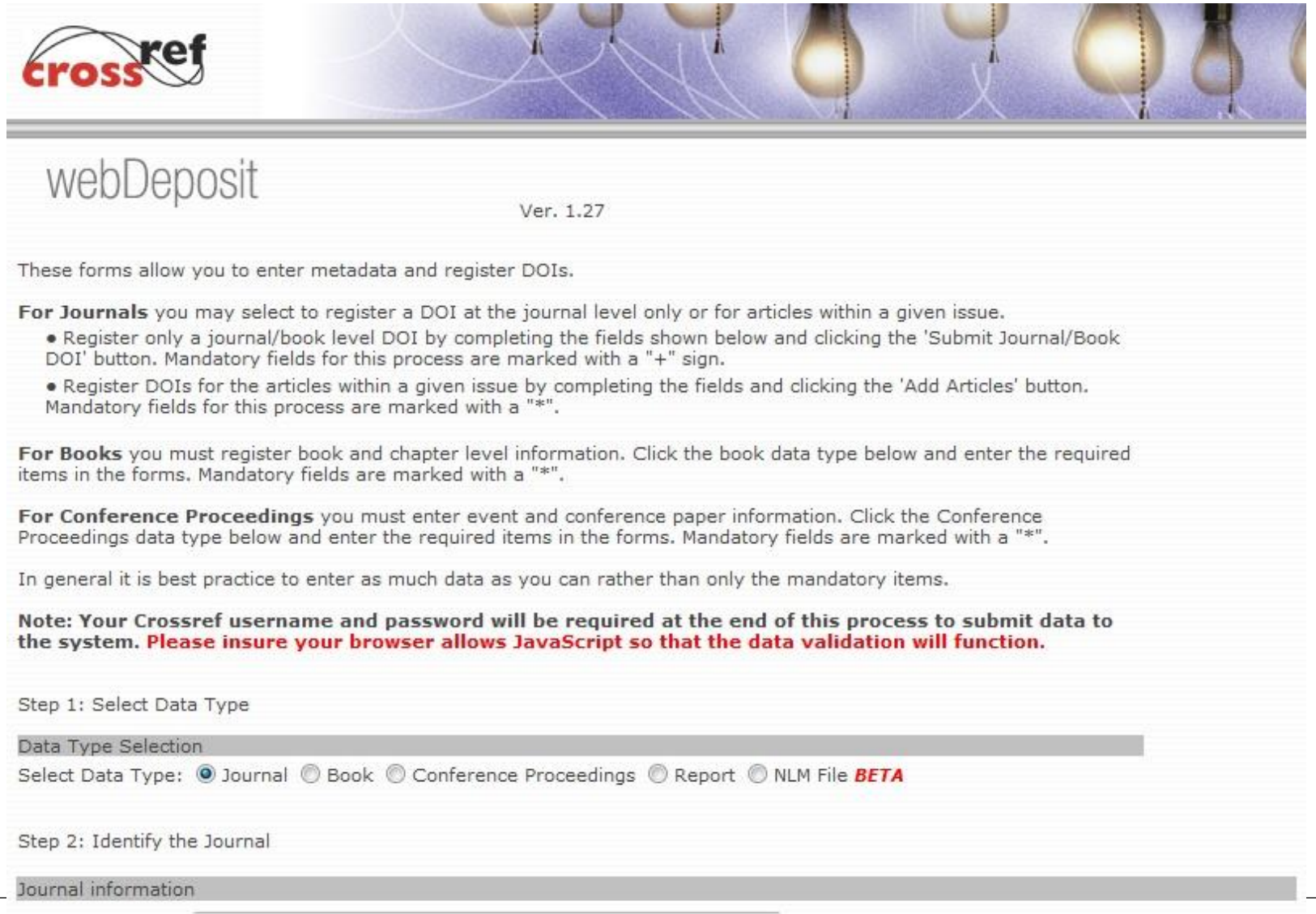
- **DOI 표기 방법**
  http://dx.doi.org/ 10.3352/jeehp.2011.8.1

- **CrossRef는**
  DOI 발급을 공식적으로 대행하는 기관 중 하나

CrossRef Linking System



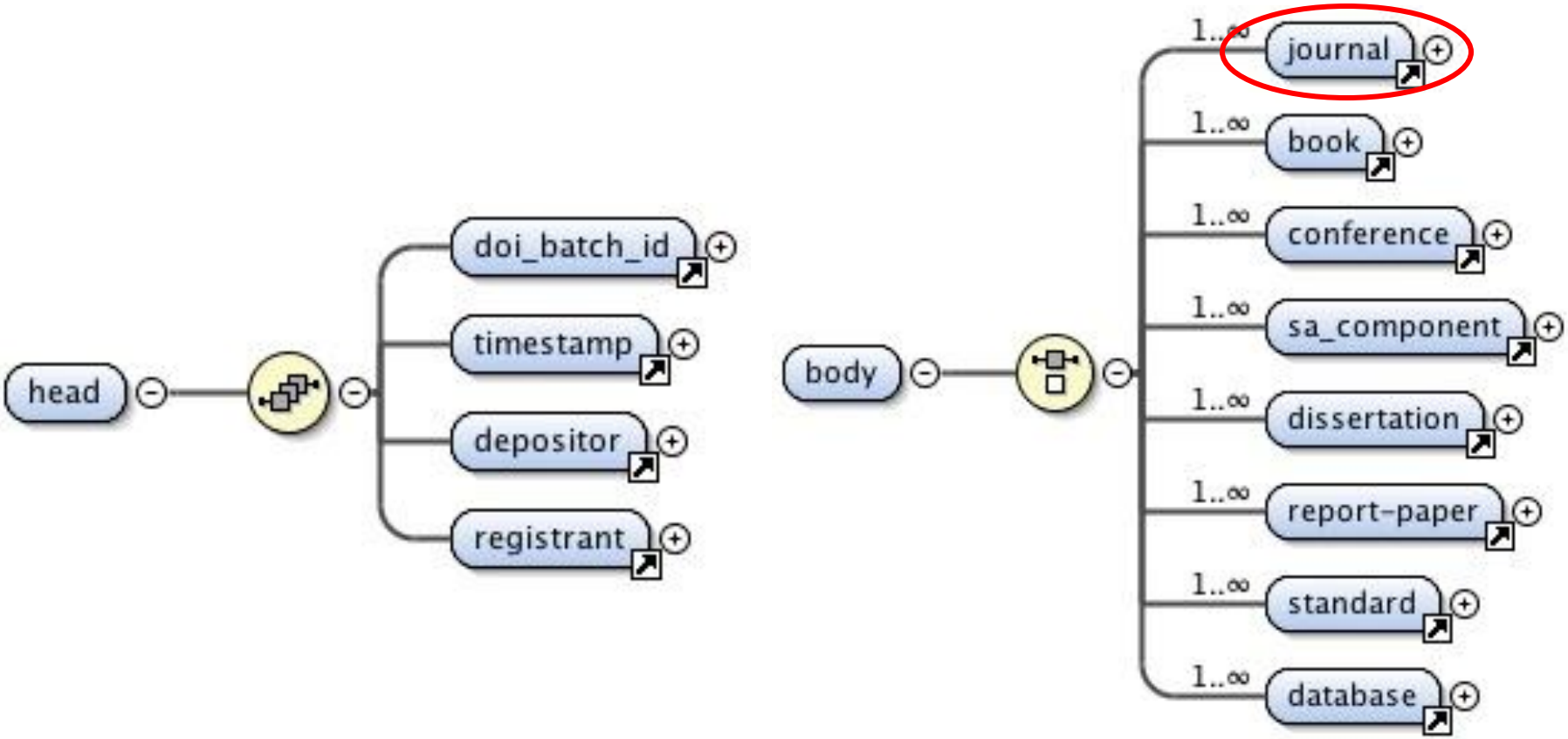
1. Web Deposit (Crossref.org → web deposit form)



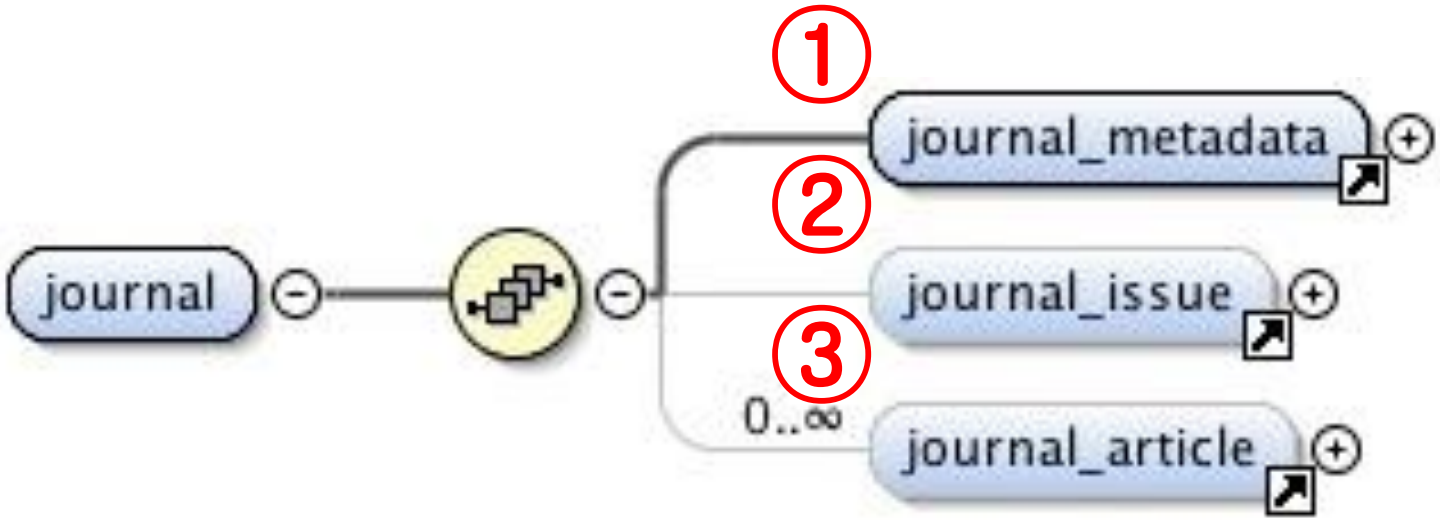
2. DOI XML Deposit

```
<?xml version="1.0" encoding="UTF-8" ?>
- <doi_batch version="4.3.0" xmlns="http://www.crossref.org/schema/4.3.0"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://www.crossref.org/schema/4.3.0
    http://www.crossref.org/schema/deposit/crossref4.3.0.xsd">
  - <head>
      <doi_batch_id>123456</doi_batch_id>
      <timestamp>19990628123304</timestamp>
    - <depositor>
        <name>xyz</name>
        <email_address>xyz@authorized_depositor.com</email_address>
      </depositor>
      <registrant>AIP</registrant>
    </head>
  - <body>
    - <journal>
      - <journal_metadata language="en">
          <full_title>Applied Physics Letters</full_title>
          <abbrev_title>Appl. Phys. Lett.</abbrev_title>
          <issn media_type="print">0003-6951</issn>
          <coden>applab</coden>
        </journal_metadata>
      - <journal_issue>
        - <publication_date media_type="print">
            <year>1999</year>
          </publication_date>
        - <journal_volume>
            <volume>74</volume>
          </journal_volume>
          <issue>16</issue>
        </journal_issue>
      - <journal_article publication_type="full_text">
        - <titles>
            <title>Sub-5-fs visible pulse generation by pulse-front-matched noncollinear optical parametric
              amplification</title>
```

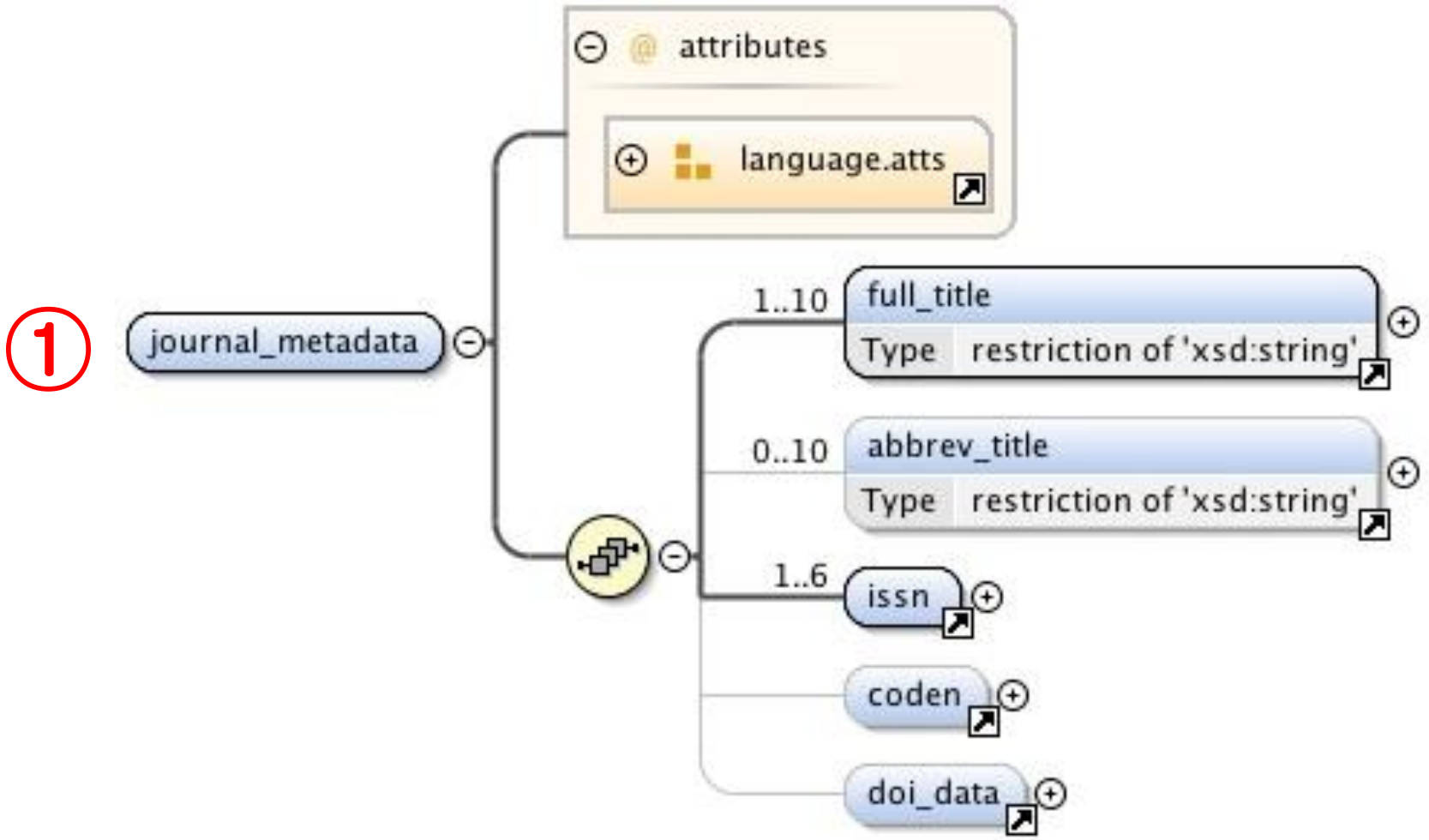
CrossRef schema (Ver. 4.3.0)



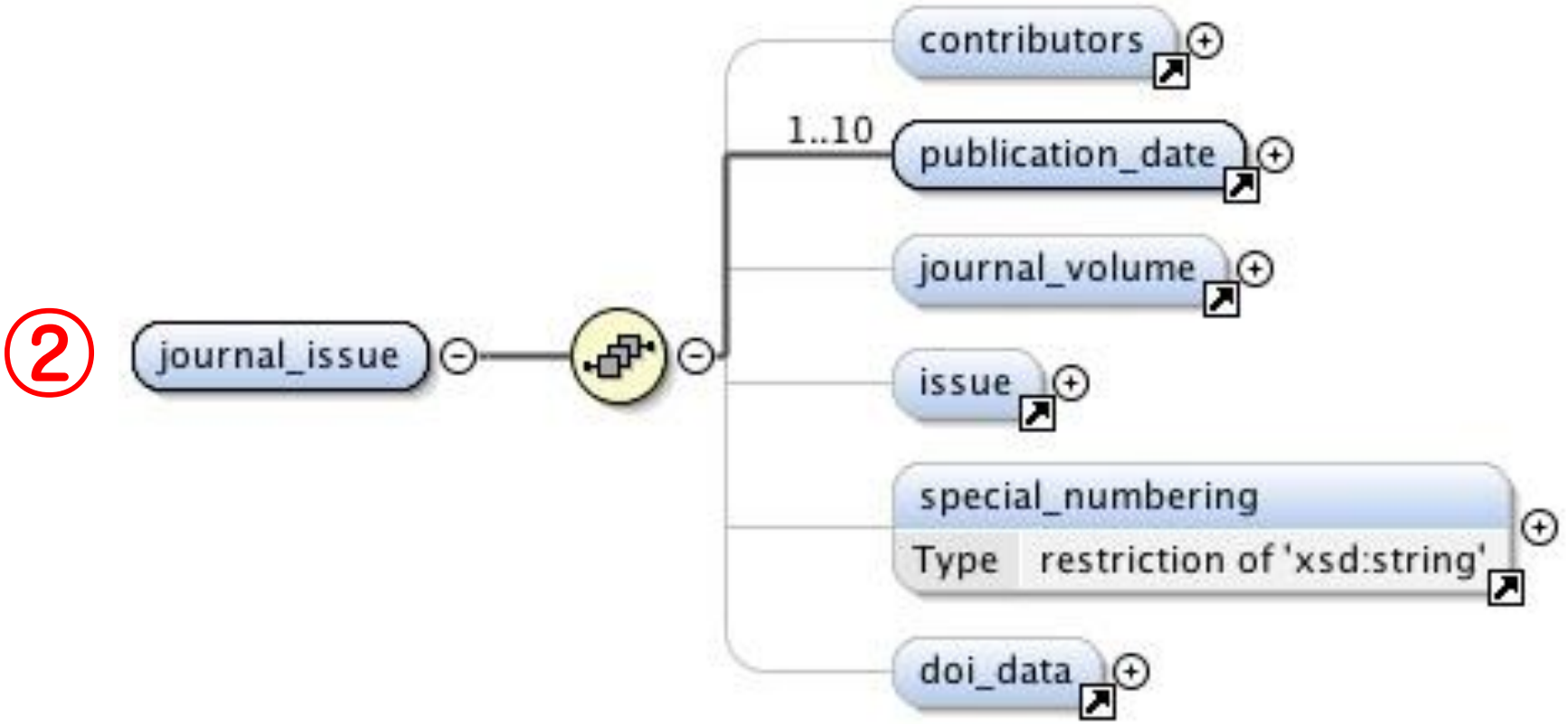
CrossRef schema-Journal



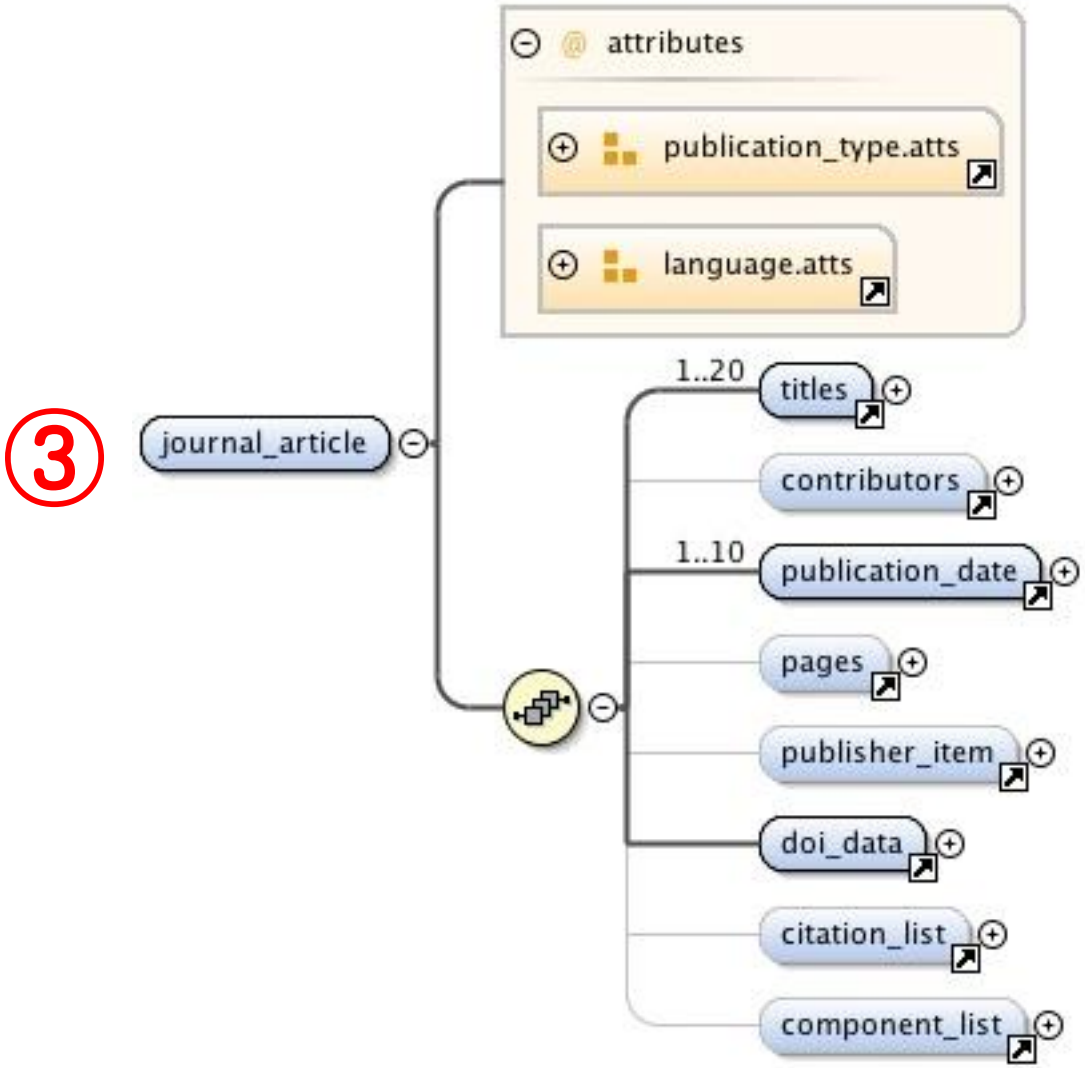
CrossRef schema-Journal Metadata



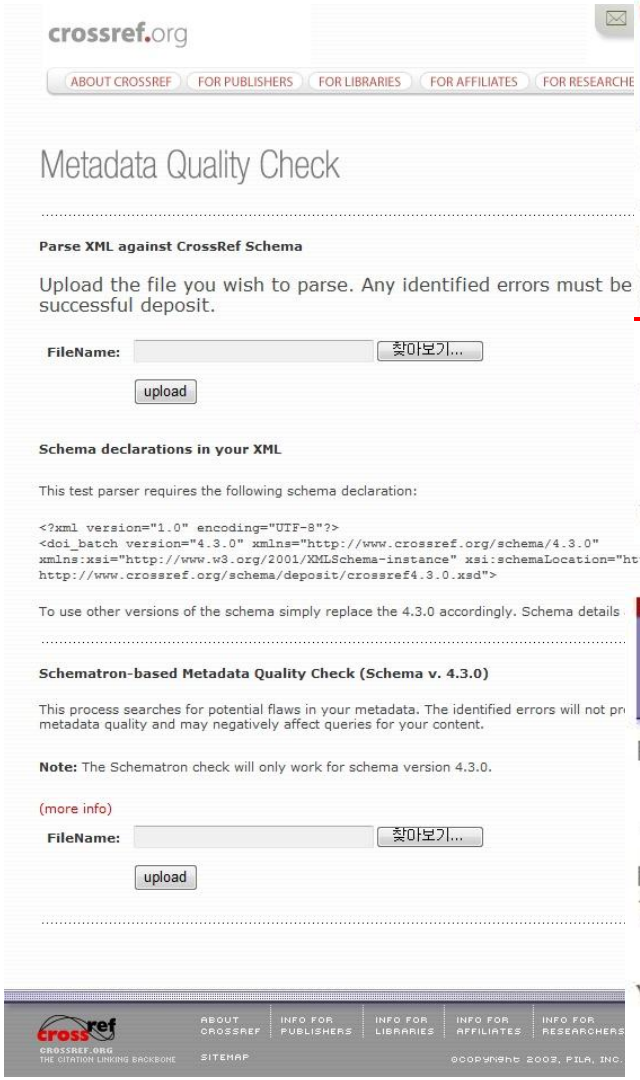
CrossRef schema-Journal Issue

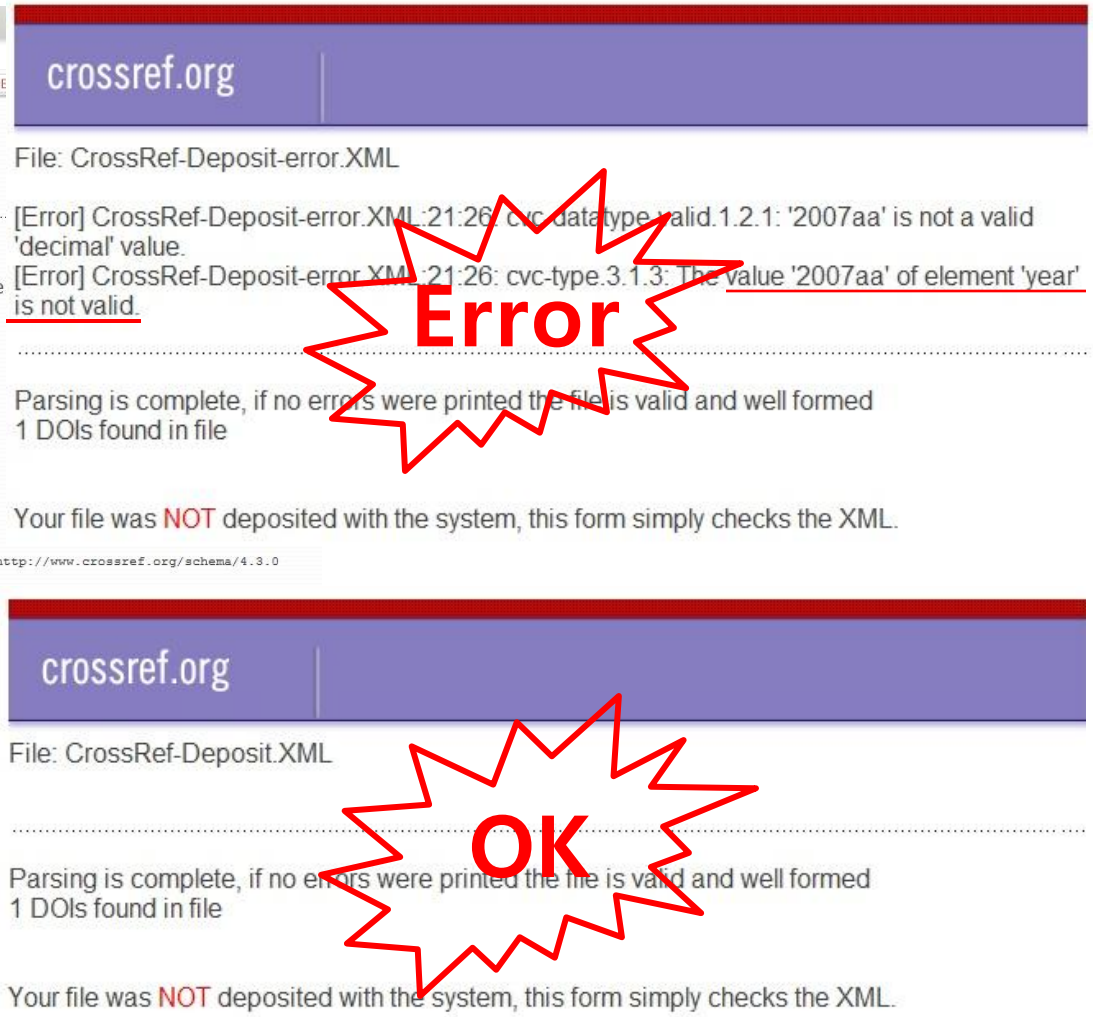


CrossRef schema-Journal Article

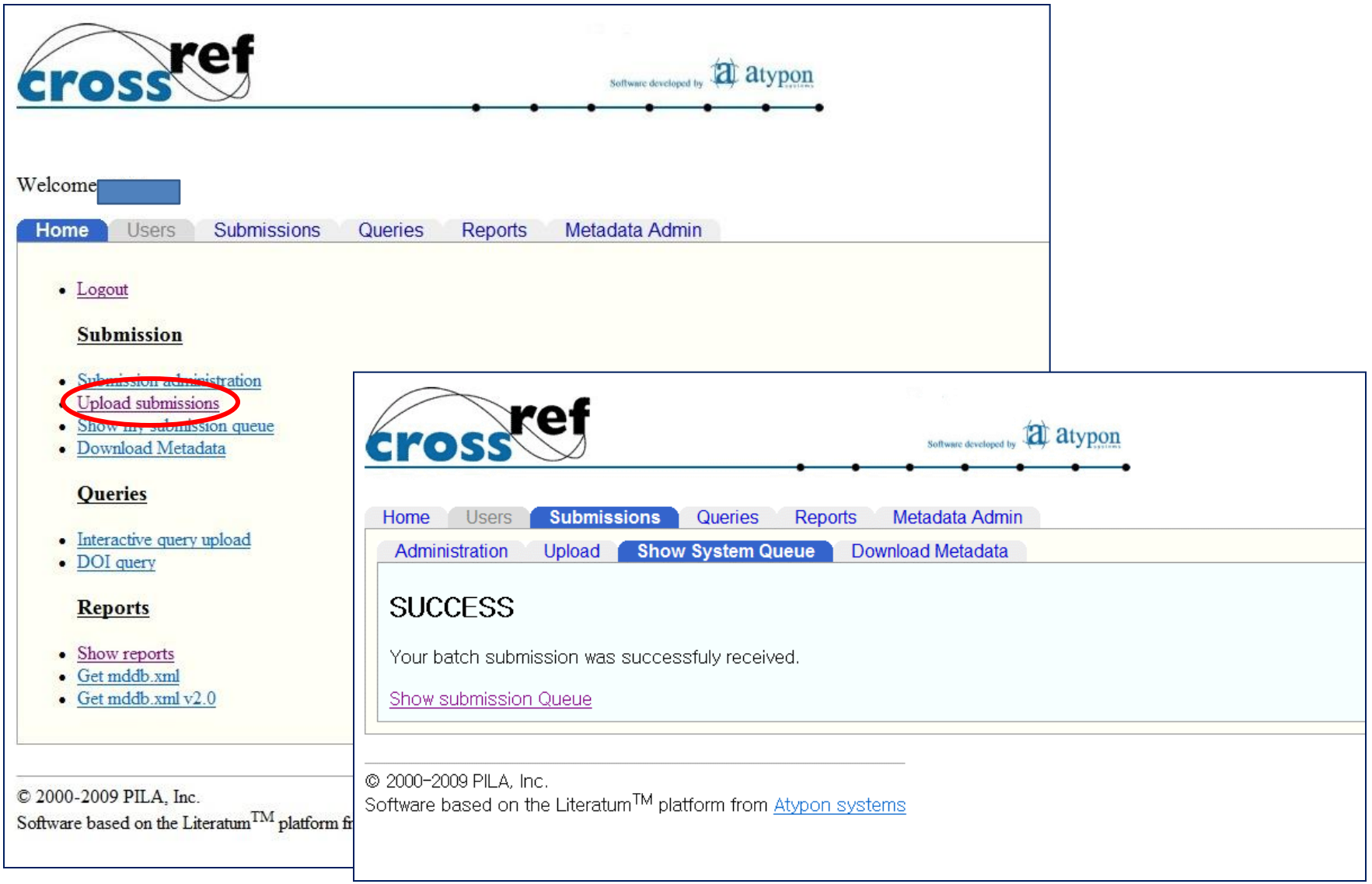


Validation Check (Crossref.org → XML Tool)





CrossRef XML Deposit



CrossRef DOI XML 실습

1. XML 태깅 할 논문
   - 참가자의 학술지 논문으로 준비

2. 작업 파일 다운로드
   - 웹하드 (office.kofst.or.kr)에 접속,
   - 로그인 (ID: yolee, PW: 1234)
   - “EditPad.exe” 다운로드 및 설치
   - “blank430.xml” 다운로드

3. “EditPad.exe”을 실행시켜 “blank430.xml” 파일 열기

CrossRef DOI XML 실습의 예 (schema 4.3.0)

```
<?xml version="1.0" encoding="UTF-8"?>
<doi_batch version="4.3.0"
xmlns="http://www.crossref.org/schema/4.3.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://www.crossref.org/schema/4.3.0
http://www.crossref.org/schema/deposit/crossref4.3.0.xsd">

<head>
        <doi_batch_id>123456..</doi_batch_id>
        <timestamp>날짜(보통은 자동생성)</timestamp>
        <depositor>
                <name>이름</name>
                <email_address>이메일</email_address>
        </depositor>
        <registrant>소속</registrant>
</head>
```

```
<body>
    <journal>
        <journal_metadata language="en">
            <full_title>저널명</full_title>
            <abbrev_title>저널명(약어)</abbrev_title>
            <issn media_type="print">ISSN(xxxx-xxxx)</issn>
        </journal_metadata>
        <journal_issue>
            <publication_date media_type="print">
                <year>발행연도</year>
            </publication_date>
            <journal_volume>
                <volume>볼륨(권)</volume>
            </journal_volume>
            <issue>이슈(호)</issue>
        </journal_issue>
```

```
<journal_article publication_type="full_text">
        <titles>
                <title>논문명</title>
        </titles>
        <contributors>
                <person_name sequence="first" contributor_role="author">
                        <given_name>저자의 이름</given_name>
                        <surname>저자의 성</surname>
                        <affiliation>저자 소속</affiliation>
                </person_name>
                <person_name sequence="additional" contributor_role="author">
                        <given_name>저자의 이름</given_name>
                        <surname>저자의 성</surname>
                        <affiliation>저자 소속</affiliation>
                </person_name>          </contributors>
        <publication_date media_type="print">
                <year>논문발행 연도</year>
        </publication_date>
        <pages>
                <first_page>논문의 첫 페이지</first_page>
        </pages>
```

```
<doi_data>
        <doi>논문의 DOI(10.xxxx/abcd)</doi>
        <resource>DOI의 Landing page 주소</resource>
</doi_data>
<citation_list>
        <citation key="key-10.xxxx/xxxx-1">
                <issn> ISSN(xxxx-xxxx)</issn>
                <journal_title>저널명 (약어)</journal_title>
                <author>저자명</author>
                <volume>볼륨(권)</volume>
                <issue>이슈(호)</issue>
                <first_page> 논문의 첫페이지</first_page>
                <cYear>발행연도</cYear>
        </citation>
.
.
.

      </citation_list>
    </journal_article>
   </journal>
  </body>
</doi_batch>
```

감사합니다!!