

Akademia Górniczo – Hutnicza

im. Stanisława Staszica w Krakowie

Wydział Elektrotechniki, Automatyki, Informatyki i Elektroniki

KATEDRA AUTOMATYKI



Sprawozdanie z laboratorium 2: XML

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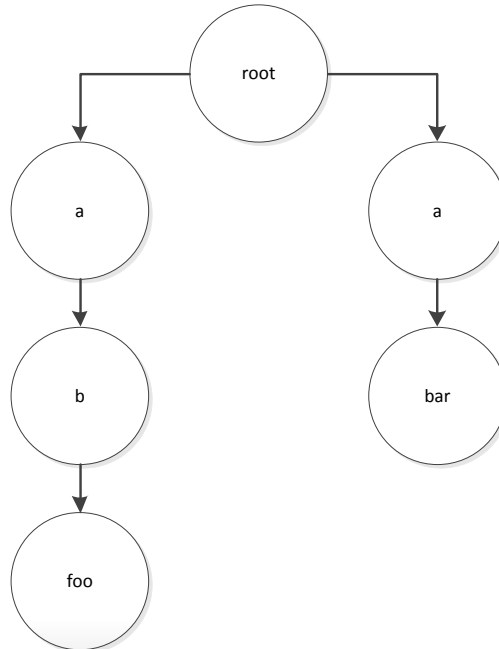
Adam Bereś

Kraków 2012

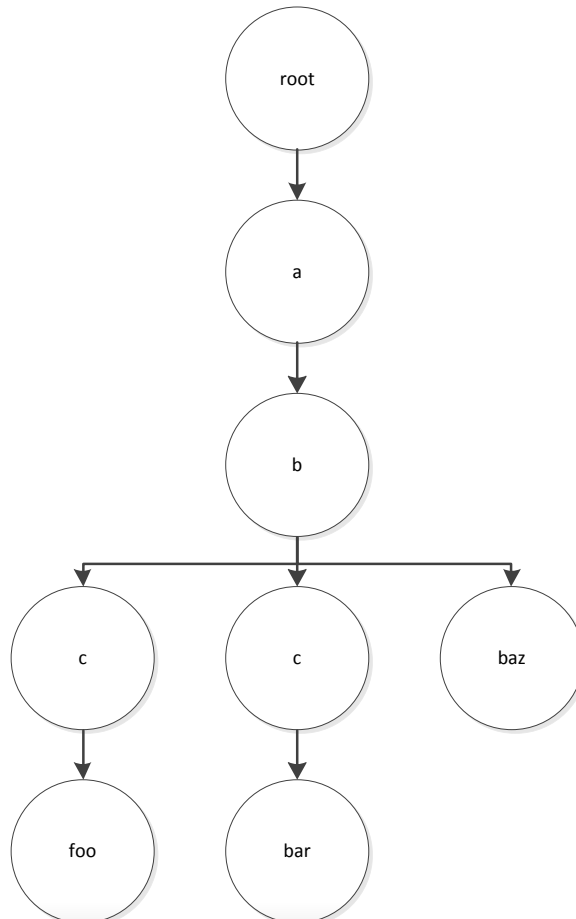
1. Poprawność XML

1.1. Poprawne:

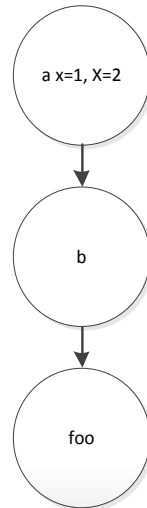
- `<a>foo<a>bar`



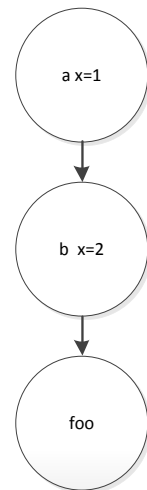
- `<a><c>foo</c>baz<c>bar</c>`



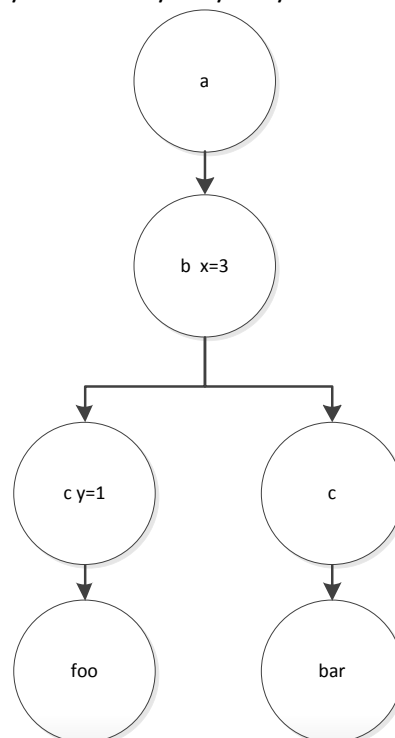
- `foo`



- `<b x="2">foo`



- `<a><b x="3"><c y="1">foo</c><c>bar</c>`



1.2. Błędne:

- `<a><a>`

Brakuje zamknięcia znacznika `<a>`

Powinno być: `<a><a>`

- `<a>foobar`

Brakuje zamknięcia znacznika ``

`<a>foobar`

- `<a><c>foobar</c>`

Zła kolejność zamykania znaczników, powinna być zgodna z kolejnością otwierania

Powinno być: `<a><c>foo</c>bar`

- `<a/>foobar`

Brak zamknięcia znacznika ``

Powinno być: `<a/>foobar`

- `foo`

x jest dwukrotnie zdefiniowany

2. XML

```
<TheBestBook>
```

```
  <author>
```

```
    <authorname>Michaił</authorname>
```

```
    <authorsurname>Bułhakow</authorsurname>
```

```
    <nationality>Russian</nationality>
```

```
  </author>
```

```
  <title>
```

```
    <originaltitle>Macmep u Masapuma</originaltitle>
```

```
    <englishtitle>Mastier i Margarita</englishtitle>
```

```
    <polishtitle>Mistrz i Małgorzata</polishtitle>
```

```
  </title>
```

```
  <datefirstedition>1967</datefirstedition>
```

```
  <date>2007</date>
```

```
  <publisher>Gazeta Wyborcza</publisher>
```

```
</TheBestBook>
```

3. DTD

```
<?xml version="1.0" ?>
<!DOCTYPE TheBestBook [
<!ELEMENT book ( author+, title+, date+, publisher) >
<!ELEMENT author ( #PCDATA | authorname | authorsurname | nationality)* >
<!ELEMENT authorname ( #PCDATA ) >
<!ELEMENT authorsurname ( #PCDATA ) >
<!ELEMENT nationality ( #PCDATA ) >
<!ELEMENT title ( originalTitle, englishTitle, polishTitle) >
<!ELEMENT originalTitle ( #PCDATA ) >
<!ELEMENT englishTitle ( #PCDATA ) >
<!ELEMENT polishTitle ( #PCDATA ) >
<!ELEMENT date ( #PCDATA | firstedition | thisedition) >
<!ELEMENT firstedition ( #PCDATA ) >
<!ELEMENT thisedition ( #PCDATA ) >
]>
```

4. XSD

```
<?xml version="1.0" encoding="utf-16"?>
<xsd:schema attributeFormDefault="unqualified" elementFormDefault="qualified"
version="1.0" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
<xsd:element name="book">
<xsd:complexType>
<xsd:sequence>

<xsd:element name="author">
<xsd:complexType>
<xsd:sequence>

<xsd:element name="authorname" type="xsd:string" />
```

```
<xsd:element name="authorsurname" type="xsd:string" />
<xsd:element name="nationality" type="xsd:string" />
</xsd:sequence>
</xsd:complexType>
</xsd:element>

<xsd:element name="title">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element name="originalTitle" type="xsd:string" />
      <xsd:element name="englishTitle" type="xsd:string" />
      <xsd:element name="polishTitle" type="xsd:string" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

<xsd:element name="date">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element name="firstedition" type="xsd:dateTime" />
      <xsd:element name="thisedition" type="xsd:dateTime" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

<xsd:element name="publisher" type="xsd:string" />
</xsd:sequence>
</xsd:complexType>
</xsd:element>
</xsd:schema>
```