



Poznańskie Centrum Superkomputerowo-Sieciowe

ICHB Polska Akademia Nauk

# Dokumentacja platformy – format źródłowy epCollXML

## **epodreczniki.pl**

Platformy Technologicznej

epodreczniki.pl

Poznań, 30 listopada 2015 r.

Platforma epodreczniki.pl jest oparta na standardach open source, w szczególności na standardzie XML. Jest to powszechnie stosowany język, używany do tworzenia ustrukturalizowanych zbiorów danych na podstawie reguł semantycznych. W projekcie epodreczniki.pl jest on używany do tworzenia i edytowania e-podreczników. Do tego celu został zaadaptowany i rozszerzony schemat XML zaproponowany przez projekt Connexions: CNXML, ColIXML, mdml, QML and BibTeXML.

Schemat Connexions został stworzony w formacie RNG. Na potrzeby epodreczniki.pl został on skonwertowany do formatu XSD, pozwalającym wyrazić potrzebne reguły i wymagania.

W rezultacie powstały nowe schematy XML:

- epColIXML
- epXML

### epColIXML

epColIXML jest formatem zapisu reprezentującym jeden e-podręcznik. Składa się z zestawu metadanych opisujących właściwości podręcznika oraz kolekcji modułów zawierających właściwą treść e-podręcznika. Każdy moduł jest oddzielną jednostką zawierającą treść w formacie epXML.

epColIXML definiuje strukturę e-podręcznika, łącznie z opcjonalnymi podkolekcjami (subcollections) modułów i ich kolejnością.

### Schematy

Elementem głównym każdej kolekcji epColIXML jest element **col:collection**. Zawiera 2 podstawowe elementy podrzędne **col:metadata** i **col:content**.

Metadane specyficzne dla formatu epColIXML (nowe względem Connexions) są zawarte w podelemencie col:metadata: **ep:e-textbook**.

Element col:content zawiera hierarchię elementów **col:module**, które mogą być grupowane w opcjonalnych elementach **col:subcollection**.

## Przykładowy epColIXML

```
<?xml version="1.0" encoding="utf-8"?>
```

```
<col:collection xmlns:col="http://cnx.rice.edu/collxml"
xmlns:ep="http://epodreczniki.pl/" xmlns:md="http://cnx.rice.edu/mdml
xmlns:cnxsi="http://cnx.rice.edu/system-info">

  <col:metadata mdml-version="0.5">

    <md:content-id>321</md:content-id>

    <md:repository>https://epodreczniki.pcoss.pl/repo</md:repository>

    <md:version>1</md:version>

    <md:created>2013-08-27 03:35 CEST</md:created>

    <md:revised>2014-05-12 10:13 CEST</md:revised>

    <md:language>pl</md:language>

    <md:license url="http://www.example.com/license"/>

    <md:title>Matematyka 1. Gimnazjum</md:title>

    <md:education-levellist>

      <md:education-level key="E3">Gimnazjum</md:education-level>

    </md:education-levellist>

    <md:subjectlist>

      <md:subject>matematyka</md:subject>

    </md:subjectlist>

    <md:abstract>Abstrakt e-podręcznika</md:abstract>

    <ep:e-textbook ep:version="1.5" ep:content-status="canon"
ep:recipient="student">

      <ep:references>

        <ep:collection-header>

          <ep:reference ep:id="12"/>

        </ep:collection-header>

      </ep:references>

      <ep:class>1</ep:class>

      <ep:cover ep:cover-type="png">123</ep:cover>

      <ep:signature/>

      <ep:show-technical-remarks>false</ep:show-technical-remarks>

      <ep:learning-objectives>

        <ep:learning-objective>
```

```
<ep:learning-objective-version ep:key="1.1">Dz.U. 30.05.2014,
poz. 803</ep:learning-objective-version>
```

```
<ep:learning-objective-stage ep:key="E4">Etap 1</ep:learning-
objective-stage>
```

```
<ep:learning-objective-school ep:key="SRE">Szkoły
ponadgimnazjalne, których ukończenie umożliwia uzyskanie świadectwa dojrzałości
po zdaniu egzaminu maturalnego</ep:learning-objective-school>
```

```
<ep:learning-objective-subject
ep:key="MAT">Matematyka</ep:learning-objective-subject>
```

```
<ep:learning-objective-scope ep:key="I">Zakres
podstawowy</ep:learning-objective-scope>
```

```
<ep:learning-objective-name ep:key="CEL-E4-SRE-MAT-1.0-I-
I">Wykorzystanie i tworzenie informacji</ep:learning-objective-name>
```

```
<ep:learning-objective-text>Uczeń interpretuje tekst
matematyczny. Po rozwiązaniu zadania interpretuje otrzymany wynik.</ep:learning-
objective-text>
```

```
</ep:learning-objective>
```

```
</ep:learning-objectives>
```

```
</ep:e-textbook>
```

```
<md:actors>
```

```
<md:person userid="1">
```

```
<md:fullname>Jan Kowalski</md:fullname>
```

```
<md:firstname>Jan</md:firstname>
```

```
<md:surname>Kowalski</md:surname>
```

```
<md:email>jan.kowalskie@example.com</md:email>
```

```
</md:person>
```

```
</md:actors>
```

```
<md:roles>
```

```
<md:role type="author">1</md:role>
```

```
</col:metadata>
```

```
<col:content>
```

```
<col:module cnxsi:version-at-this-collection-version="11"
document="izpMGjkRLH" repository="http://epodreczniki.pcss.pl/module/
version="11">
```

```
<md:title>Strona do pominięcia w spisie</md:title>
```

```
</col:module>

<col:subcollection>
  <ep:view-attributes>
    <ep:view-attribute ep:type="panorama" ep:id="1009"/>
  </ep:view-attributes>
  <md:title>Tytuł rozdziału</md:title>
  <col:content>
    <col:module cnxsi:version-at-this-collection-version="14"
document="i7cNQ1OanJ" repository="http://epodreczniki.pcoss.pl/module/"
version="14">
      <md:title>Pojęcie funkcji</md:title>
    </col:module>
    <col:module cnxsi:version-at-this-collection-version="13"
document="iTo6EjlmUI" repository="http://epodreczniki.pcoss.pl/module/"
version="13">
      <md:title>Dziedzina funkcji</md:title>
    </col:module>
    <col:module cnxsi:version-at-this-collection-version="10"
document="iMe73KkQt8" repository="http://epodreczniki.pcoss.pl/module/"
version="10">
      <md:title>Argument i wartość funkcji. Miejsca zerowe funkcji
liczbowej</md:title>
    </col:module>
  </col:content>
</col:subcollection>
</col:content>
</col:collection>
```

## Schema collxml.xsd

schema location: [collxml.xsd](#)  
attributeFormDefault:  
elementFormDefault: **qualified**  
targetNamespace: **http://cnx.rice.edu/collxml**

### Elements

[collection](#)  
[content](#)  
[metadata](#)  
[module](#)  
[subcollection](#)

schema location: [mdml.xsd](#)  
attributeFormDefault:  
elementFormDefault: **qualified**  
targetNamespace: **http://cnx.rice.edu/mdml**

### Elements

[abstract](#)  
[actors](#)  
[content-id](#)  
[content-url](#)  
[created](#)  
[education-levellist](#)  
[keywordlist](#)  
[language](#)  
[license](#)  
[organization](#)  
[person](#)  
[repository](#)  
[revised](#)  
[role](#)  
[roles](#)  
[subjectlist](#)  
[subtitle](#)  
[title](#)  
[version](#)

schema location: [ep.xsd](#)  
attributeFormDefault:  
elementFormDefault: **qualified**  
targetNamespace: **http://epodreczniki.pl/**

Elements	Complex types	Attributes	Attr. groups
<a href="#">collection-header</a> <a href="#">cover</a> <a href="#">e-textbook</a> <a href="#">editor</a> <a href="#">learning-objectives</a> <a href="#">origin-id</a> <a href="#">origin-version</a> <a href="#">references</a> <a href="#">root-id</a> <a href="#">view-attributes</a>	<a href="#">type-link-reference</a>	<a href="#">id</a> <a href="#">numbering</a> <a href="#">toc</a>	<a href="#">group-attr-status-and-recipient</a>

schema location: [cnxsi.xsd](#)  
attributeFormDefault:  
elementFormDefault: **qualified**  
targetNamespace: **http://cnx.rice.edu/system-info**

Attributes  
[version-at-this-collection-version](#)

schema location: [common.xsd](#)  
attributeFormDefault:  
elementFormDefault: **qualified**  
targetNamespace: **http://cnx.rice.edu/mdml**

Complex types	Simple types
<a href="#">type-elem-string-attr-key</a> <a href="#">type-elem-string-attr-key-qualified</a>	<a href="#">type-not-empty-positive-integer</a> <a href="#">type-not-empty-string</a> <a href="#">type-string-min-length-one</a> <a href="#">type-string-skip-include</a>

schema location: [common.xsd](#)  
attributeFormDefault:  
elementFormDefault: **qualified**  
targetNamespace: **http://epodreczniki.pl/**

Complex types	Simple types
<a href="#">type-elem-string-attr-key</a> <a href="#">type-elem-string-attr-key-qualified</a>	<a href="#">type-not-empty-positive-integer</a> <a href="#">type-not-empty-string</a>

[type-string-min-length-one](#)

[type-string-skip-include](#)

## element collection

diagram	<p>Document element of a CollXML document; it and its contents describe a collection of modules at a particular version.n</p> <p>An element to hold details about collection.</p> <p>An element to hold the content of the context element ('subcollection', 'module').</p>
namespace	http://cnx.rice.edu/collxml
properties	content complex
children	<a href="#">metadata</a> <a href="#">content</a>
annotation	documentation Document element of a CollXML document; it and its contents describe a collection of modules at a particular version.n
source	<pre>&lt;xs:element name="collection"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;Document element of a CollXML document; it and its contents describe a collection of modules at a particular version.n&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt;   &lt;xs:complexType&gt;     &lt;xs:sequence&gt;       &lt;xs:element ref="metadata" minOccurs="0"/&gt;       &lt;xs:element ref="content"/&gt;     &lt;/xs:sequence&gt;   &lt;/xs:complexType&gt; &lt;/xs:element&gt;</pre>

## element content

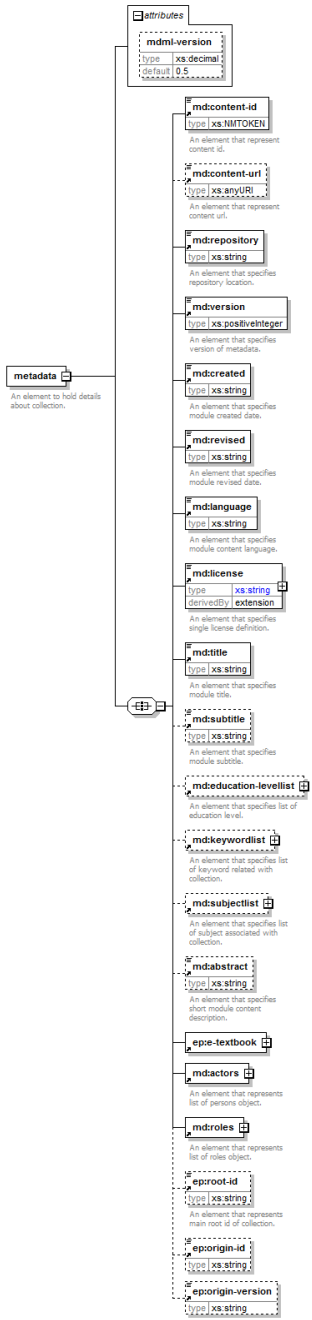
diagram	<p>An element to hold the content of the context element ('subcollection', 'module').</p> <p>An element that represents a module in a collection.</p> <p>An element that represents a subcollection in a collection.</p>
namespace	http://cnx.rice.edu/collxml
properties	content complex
children	<a href="#">module</a> <a href="#">subcollection</a>
used by	elements <a href="#">collection</a> <a href="#">subcollection</a>
annotation	documentation An element to hold the content of the context element ('subcollection', 'module').
source	<pre>&lt;xs:element name="content"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;An element to hold the content of the context element ('subcollection',</pre>



```
'module').</xs:documentation>
</xs:annotation>
<xs:complexType>
  <xs:choice minOccurs="0" maxOccurs="unbounded">
    <xs:element ref="module"/>
    <xs:element ref="subcollection"/>
  </xs:choice>
</xs:complexType>
</xs:element>
```

# element metadata

diagram



namespace	http://cnx.rice.edu/collxml					
properties	content complex					
children	<a href="#">content-id</a> <a href="#">content-uri</a> <a href="#">repository</a> <a href="#">version</a> <a href="#">created</a> <a href="#">revised</a> <a href="#">language</a> <a href="#">license</a> <a href="#">title</a> <a href="#">subtitle</a> <a href="#">education-levellist</a> <a href="#">keywordlist</a> <a href="#">subjectlist</a> <a href="#">abstract</a> <a href="#">e-textbook</a> <a href="#">actors</a> <a href="#">roles</a> <a href="#">root-id</a> <a href="#">origin-id</a> <a href="#">origin-version</a>					
used by	element	<a href="#">collection</a>				
attributes	Name	Type	Use	Default	Fixed	Annotation
	<a href="#">mdml-version</a>	<b>xs:decimal</b>		0.5		
annotation	documentation An element to hold details about collection.					

source	<pre> &lt;xs:element name="metadata"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;An element to hold details about collection.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt;   &lt;xs:complexType&gt;     &lt;xs:all&gt;       &lt;xs:element ref="md:content-id"/&gt;       &lt;xs:element ref="md:content-url" minOccurs="0"/&gt;       &lt;xs:element ref="md:repository"/&gt;       &lt;xs:element ref="md:version"/&gt;       &lt;xs:element ref="md:created"/&gt;       &lt;xs:element ref="md:revised"/&gt;       &lt;xs:element ref="md:language"/&gt;       &lt;xs:element ref="md:license"/&gt;       &lt;xs:element ref="md:title"/&gt;       &lt;xs:element ref="md:subtitle" minOccurs="0"/&gt;       &lt;xs:element ref="md:education-levellist" minOccurs="0"/&gt;       &lt;xs:element ref="md:keywordlist" minOccurs="0"/&gt;       &lt;xs:element ref="md:subjectlist" minOccurs="0"/&gt;       &lt;xs:element ref="md:abstract" minOccurs="0"/&gt;       &lt;xs:element ref="ep:e-textbook"/&gt;       &lt;xs:element ref="md:actors"/&gt;       &lt;xs:element ref="md:roles"/&gt;       &lt;xs:element ref="ep:root-id" minOccurs="0"/&gt;       &lt;xs:element ref="ep:origin-id" minOccurs="0"/&gt;       &lt;xs:element ref="ep:origin-version" minOccurs="0"/&gt;     &lt;/xs:all&gt;     &lt;xs:attribute name="mdml-version" type="xs:decimal" default="0.5"/&gt;   &lt;/xs:complexType&gt; &lt;/xs:element&gt; </pre>
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attribute **metadata/@mdml-version**

type	<b>xs:decimal</b>
properties	default 0.5
source	<pre>&lt;xs:attribute name="mdml-version" type="xs:decimal" default="0.5"/&gt;</pre>

## element module

<p>diagram</p>	<p><b>attributes</b></p> <p><b>repository</b> type <code>xs:anyURI</code> An attribute that represents main address of repository.</p> <p><b>url</b> type <code>xs:anyURI</code> An attribute that represents location of current module in repository.</p> <p><b>document</b> type <code>xs:string</code> An attribute that represents module id.</p> <p><b>version</b> type <code>xs:string</code></p> <p><b>cnxs:version-at-this-collection-...</b> type <code>xs:string</code> An attribute that specifies the version of the module that is used in the version of the collection expressed by the containing ColXML 'collection'. If the collection author has selected a particular version of the module to be used in this collection version, then the value will be that version number; if the collection author has chosen to use the 'latest' version of the module in this collection version, then the value will be the particular version of the module that was the latest version when this collection version was published.</p> <p><b>ep:toc</b> type <code>type-string-skip-include</code> An attribute that specifies if a module declaration should be included (default value) or skipped in the Table Of Contents.</p> <p><b>ep:numbering</b> type <code>type-string-skip-include</code> An attribute that specifies if a module numbering should be included or skipped in Table Of Content.</p> <p><b>module</b> An element that represents a module in a collection.</p> <p><b>md:title</b> type <code>xs:string</code> An element that specifies module title.</p> <p><b>md:subtitle</b> type <code>xs:string</code> An element that specifies module subtitle.</p>						
namespace	http://cnx.rice.edu/collxml						
properties	content complex						
children	<a href="#">title</a> <a href="#">subtitle</a>						
used by	element <a href="#">content</a>						
attributes	Name <a href="#">repository</a>	Type <b>xs:anyURI</b>	Use	Default	Fixed	Annotation documentation An attribute that represents main address	

	<a href="#">url</a>	<b>xs:anyURI</b>	of repository. documentation An attribute that represents location of current module in repository.
	<a href="#">document</a>	<b>xs:string</b>	documentation An attribute that represents module id.
	<a href="#">version</a>	<b>xs:string</b>	
	<a href="#">cnxsi:version-at-this-collection-version</a>	<b>xs:string</b>	documentation An attribute that specifies the version of the module that is used in the version of the collection expressed by the containing CollXML 'collection'. If the collection author has selected a particular version of the module to be used in this collection version, then the value will be that version number; if the collection author has chosen to use the 'latest' version of the module in this collection version, then the value will be the particular version of the module that was the latest version when this collection version was published.
	<a href="#">ep:toc</a>	<b><u>type-string-skip-include</u></b>	documentation An attribute that specifies if a module declaration should be included (default value) or skipped in the Table Of Contents.
	<a href="#">ep:numbering</a>	<b><u>type-string-</u></b>	documentation

	<a href="#"><u>skip-include</u></a>	An attribute that specifies if a module numbering should be included or skipped in Table Of Content.
annotation	documentation An element that represents a module in a collection.	
source	<pre> &lt;xs:element name="module"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;An element that represents a module in a collection.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt;   &lt;xs:complexType&gt;     &lt;xs:all&gt;       &lt;xs:element ref="md:title"/&gt;       &lt;xs:element ref="md:subtitle" minOccurs="0"/&gt;     &lt;/xs:all&gt;     &lt;xs:attribute name="repository" type="xs:anyURI"&gt;       &lt;xs:annotation&gt;         &lt;xs:documentation&gt;An attribute that represents main address of repository.&lt;/xs:documentation&gt;       &lt;/xs:annotation&gt;     &lt;/xs:attribute&gt;     &lt;xs:attribute name="url" type="xs:anyURI"&gt;       &lt;xs:annotation&gt;         &lt;xs:documentation&gt;An attribute that represents location of current module in repository.&lt;/xs:documentation&gt;       &lt;/xs:annotation&gt;     &lt;/xs:attribute&gt;     &lt;xs:attribute name="document" type="xs:string"&gt;       &lt;xs:annotation&gt;         &lt;xs:documentation&gt;An attribute that represents module id.&lt;/xs:documentation&gt;       &lt;/xs:annotation&gt;     &lt;/xs:attribute&gt;     &lt;xs:attribute name="version" type="xs:string"/&gt;     &lt;xs:attribute ref="cnxsi:version-at-this-collection-version"/&gt;     &lt;xs:attribute ref="ep:toc"/&gt;     &lt;xs:attribute ref="ep:numbering"/&gt;   &lt;/xs:complexType&gt; &lt;/xs:element&gt; </pre>	

#### attribute **module/@repository**

type	<b>xs:anyURI</b>
annotation	documentation An attribute that represents main address of repository.
source	<pre> &lt;xs:attribute name="repository" type="xs:anyURI"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;An attribute that represents main address of repository.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt; &lt;/xs:attribute&gt; </pre>

**attribute module/@url**

type	<b>xs:anyURI</b>
annotation	documentation An attribute that represents location of current module in repository.
source	<code>&lt;xs:attribute name="url" type="xs:anyURI"&gt; &lt;xs:annotation&gt;   &lt;xs:documentation&gt;An attribute that represents location of current module in repository.&lt;/xs:documentation&gt; &lt;/xs:annotation&gt; &lt;/xs:attribute&gt;</code>

**attribute module/@document**

type	<b>xs:string</b>
annotation	documentation An attribute that represents module id.
source	<code>&lt;xs:attribute name="document" type="xs:string"&gt; &lt;xs:annotation&gt;   &lt;xs:documentation&gt;An attribute that represents module id.&lt;/xs:documentation&gt; &lt;/xs:annotation&gt; &lt;/xs:attribute&gt;</code>

**attribute module/@version**

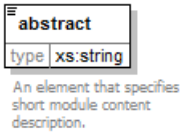
type	<b>xs:string</b>
source	<code>&lt;xs:attribute name="version" type="xs:string"/&gt;</code>

**element subcollection**

diagram	<p>The diagram illustrates the structure of the <code>subcollection</code> element. It is a complex element with the following components:</p> <ul style="list-style-type: none"> <li><b>Attributes:</b> <ul style="list-style-type: none"> <li><code>ep:id</code>: An attribute of type <code>type-not-empty-string</code> representing the ID of the element.</li> </ul> </li> <li><b>Content Model:</b> <ul style="list-style-type: none"> <li><code>md:title</code>: An element of type <code>xs:string</code> specifying the module title.</li> <li><code>ep:view-attributes</code>: The main element for collection-specific presentation attributes.</li> <li><code>content</code>: An element that holds the content of the context element (either <code>subcollection</code> or <code>module</code>).</li> </ul> </li> </ul>
namespace	<code>http://cnx.rice.edu/collxml</code>
properties	content complex

children	<a href="#">title</a> <a href="#">view-attributes</a> <a href="#">content</a>					
used by	element <a href="#">content</a>					
attributes	Name <a href="#">ep:id</a>	Type <a href="#">type-not-empty-string</a>	Use	Default	Fixed	Annotation documentation An attribute that represent id of element.
annotation	documentation An element that represents a subcollection in a collection.					
source	<pre> &lt;xs:element name="subcollection"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;An element that represents a subcollection in a collection.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt;   &lt;xs:complexType&gt;     &lt;xs:all&gt;       &lt;xs:element ref="md:title"/&gt;       &lt;xs:element ref="ep:view-attributes" minOccurs="0"/&gt;       &lt;xs:element ref="content"/&gt;     &lt;/xs:all&gt;     &lt;xs:attribute ref="ep:id"/&gt;   &lt;/xs:complexType&gt; &lt;/xs:element&gt; </pre>					

### element **abstract**

diagram	
namespace	http://cnx.rice.edu/mdml
type	<b>xs:string</b>
properties	content simple
used by	element <a href="#">metadata</a>
annotation	documentation An element that specifies short module content description.
source	<pre> &lt;xs:element name="abstract" type="xs:string"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;An element that specifies short module content description.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt; &lt;/xs:element&gt; </pre>



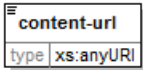
## element actors

diagram	
namespace	http://cnx.rice.edu/mdml
properties	content complex
children	<a href="#">person</a> <a href="#">organization</a>
used by	element <a href="#">metadata</a>
annotation	documentation An element that represents list of persons object.
source	<pre> &lt;xs:element name="actors"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;An element that represents list of persons object.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt;   &lt;xs:complexType&gt;     &lt;xs:choice minOccurs="1" maxOccurs="unbounded"&gt;       &lt;xs:element ref="person" maxOccurs="unbounded"/&gt;       &lt;xs:element ref="organization" maxOccurs="unbounded"/&gt;     &lt;/xs:choice&gt;   &lt;/xs:complexType&gt; &lt;/xs:element&gt; </pre>


## element content-id

diagram	
namespace	http://cnx.rice.edu/mdml
type	<b>xs:NMTOKEN</b>
properties	content simple
used by	element <a href="#">metadata</a>
annotation	documentation An element that represent content id.
source	<pre> &lt;xs:element name="content-id" type="xs:NMTOKEN"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;An element that represent content id.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt; &lt;/xs:element&gt; </pre>

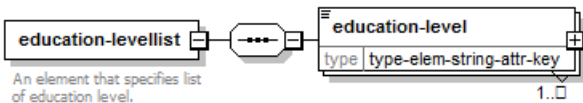
### element content-url

diagram	 <p>An element that represent content url.</p>
namespace	http://cnx.rice.edu/mdml
type	<b>xs:anyURI</b>
properties	content simple
used by	element <a href="#">metadata</a>
annotation	documentation An element that represent content url.
source	<pre>&lt;xs:element name="content-url" type="xs:anyURI"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;An element that represent content url.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt; &lt;/xs:element&gt;</pre>

### element created

diagram	 <p>An element that specifies module created date.</p>
namespace	http://cnx.rice.edu/mdml
type	<b>xs:string</b>
properties	content simple
used by	element <a href="#">metadata</a>
annotation	documentation An element that specifies module created date.
source	<pre>&lt;xs:element name="created" type="xs:string"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;An element that specifies module created date.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt; &lt;/xs:element&gt;</pre>

### element education-levellist


diagram	 <p>An element that specifies list of education level.</p> <p>1..∞</p> <p>An element that represents single education level.</p>
namespace	http://cnx.rice.edu/mdml
properties	content complex
children	<a href="#">education-level</a>
used by	element <a href="#">metadata</a>

annotation	documentation An element that specifies list of education level.
source	<pre> &lt;xs:element name="education-levellist"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;An element that specifies list of education level.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt;   &lt;xs:complexType&gt;     &lt;xs:sequence&gt;       &lt;xs:element name="education-level" type="type-elem-string-attr-key" minOccurs="1" maxOccurs="unbounded"&gt;         &lt;xs:annotation&gt;           &lt;xs:documentation&gt;An element that represents single education level.&lt;/xs:documentation&gt;         &lt;/xs:annotation&gt;       &lt;/xs:element&gt;     &lt;/xs:sequence&gt;   &lt;/xs:complexType&gt; &lt;/xs:element&gt; </pre>

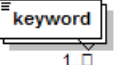
### element education-levellist/education-level

diagram													
namespace	http://cnx.rice.edu/mdml												
type	<a href="#">type-elem-string-attr-key</a>												
properties	minOcc 1 maxOcc unbounded content complex												
attributes	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>Annotation documentation</th> </tr> </thead> <tbody> <tr> <td><a href="#">key</a></td> <td><b>xs:string</b></td> <td></td> <td></td> <td></td> <td>A coded representation of an element of the object.</td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation documentation	<a href="#">key</a>	<b>xs:string</b>				A coded representation of an element of the object.
Name	Type	Use	Default	Fixed	Annotation documentation								
<a href="#">key</a>	<b>xs:string</b>				A coded representation of an element of the object.								
annotation	documentation An element that represents single education level.												
source	<pre> &lt;xs:element name="education-level" type="type-elem-string-attr-key" minOccurs="1" maxOccurs="unbounded"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;An element that represents single education level.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt; &lt;/xs:element&gt; </pre>												

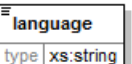
## element keywordlist

diagram	 <p>An element that specifies list of keyword related with collection.</p> <p>An element that determines single keyword.</p>
namespace	http://cnx.rice.edu/mdml
properties	content complex
children	<a href="#">keyword</a>
used by	element <a href="#">metadata</a>
annotation	documentation An element that specifies list of keyword related with collection.
source	<pre>&lt;xs:element name="keywordlist"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;An element that specifies list of keyword related with collection.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt;   &lt;xs:complexType&gt;     &lt;xs:sequence&gt;       &lt;xs:element name="keyword" minOccurs="1" maxOccurs="unbounded"&gt;         &lt;xs:annotation&gt;           &lt;xs:documentation&gt;An element that determines single keyword.&lt;/xs:documentation&gt;         &lt;/xs:annotation&gt;       &lt;/xs:element&gt;     &lt;/xs:sequence&gt;   &lt;/xs:complexType&gt; &lt;/xs:element&gt;</pre>

## element keywordlist/keyword

diagram	 <p>An element that determines single keyword.</p>
namespace	http://cnx.rice.edu/mdml
properties	minOcc 1 maxOcc unbounded
annotation	documentation An element that determines single keyword.
source	<pre>&lt;xs:element name="keyword" minOccurs="1" maxOccurs="unbounded"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;An element that determines single keyword.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt; &lt;/xs:element&gt;</pre>

## element language

diagram	 <p>An element that specifies module content language.</p>
---------	-----------------------------------------------------------------------------------------------------------------------------------------------

namespace	http://cnx.rice.edu/mdml
type	<b>xs:string</b>
properties	content simple
used by	element <a href="#">metadata</a>
annotation	documentation An element that specifies module content language.
source	<pre>&lt;xs:element name="language" type="xs:string"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;An element that specifies module content language.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt; &lt;/xs:element&gt;</pre>

### element license

diagram	<p>The diagram shows two classes. The first class is 'license', which is a simple content type extending 'xs:string'. It has a 'derivedBy' property set to 'extension'. The second class is 'url', which is an attribute of type 'xs:anyURI'. It has an annotation: 'An attribute that contains url with license.'</p>						
namespace	http://cnx.rice.edu/mdml						
type	extension of <b>xs:string</b>						
properties	content complex						
used by	element <a href="#">metadata</a>						
attributes	Name	Type	Use	Default	Fixed	Annotation documentation	
	<a href="#">url</a>	<b>xs:anyURI</b>				An attribute that contains url with license.	
annotation	documentation An element that specifies single license definition.						
source	<pre>&lt;xs:element name="license"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;An element that specifies single license definition.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt;   &lt;xs:complexType&gt;     &lt;xs:simpleContent&gt;       &lt;xs:extension base="xs:string"&gt;         &lt;xs:attribute name="url" type="xs:anyURI"&gt;           &lt;xs:annotation&gt;             &lt;xs:documentation&gt;An attribute that contains url with license.&lt;/xs:documentation&gt;           &lt;/xs:annotation&gt;         &lt;/xs:attribute&gt;       &lt;/xs:extension&gt;     &lt;/xs:simpleContent&gt;   &lt;/xs:complexType&gt; &lt;/xs:element&gt;</pre>						

### attribute `license/@url`

type	<code>xs:anyURI</code>
annotation	documentation An attribute that contains url with license.
source	<pre>&lt;xs:attribute name="url" type="xs:anyURI"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;An attribute that contains url with license.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt; &lt;/xs:attribute&gt;</pre>

### element `organization`

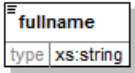
diagram													
namespace	<code>http://cnx.rice.edu/mdml</code>												
properties	content complex												
children	<a href="#">fullname</a> <a href="#">shortname</a> <a href="#">email</a>												
used by	element <a href="#">actors</a>												
attributes	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td><a href="#">userid</a></td> <td><code>xs:string</code></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	<a href="#">userid</a>	<code>xs:string</code>				
Name	Type	Use	Default	Fixed	Annotation								
<a href="#">userid</a>	<code>xs:string</code>												
annotation	documentation An element that represents single organization.												
source	<pre>&lt;xs:element name="organization"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;An element that represents single organization.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt;   &lt;xs:complexType&gt;     &lt;xs:all&gt;       &lt;xs:element name="fullname" type="xs:string"/&gt;       &lt;xs:element name="shortname" type="xs:string"/&gt;       &lt;xs:element name="email" type="xs:string" minOccurs="0"/&gt;     &lt;/xs:all&gt;     &lt;xs:attribute name="userid" type="xs:string"/&gt;   &lt;/xs:complexType&gt; &lt;/xs:element&gt;</pre>												

### attribute `organization/@userid`


type	<code>xs:string</code>
------	------------------------

source	<code>&lt;xs:attribute name="userid" type="xs:string"/&gt;</code>
--------	-------------------------------------------------------------------


### element **organization/fullname**

diagram	
namespace	http://cnx.rice.edu/mdml
type	<b>xs:string</b>
properties	content simple
source	<code>&lt;xs:element name="fullname" type="xs:string"/&gt;</code>

### element **organization/shortname**

diagram	
namespace	http://cnx.rice.edu/mdml
type	<b>xs:string</b>
properties	content simple
source	<code>&lt;xs:element name="shortname" type="xs:string"/&gt;</code>

### element **organization/email**

diagram	
namespace	http://cnx.rice.edu/mdml
type	<b>xs:string</b>
properties	minOcc 0 maxOcc 1 content simple
source	<code>&lt;xs:element name="email" type="xs:string" minOccurs="0"/&gt;</code>

## element person

diagram	<p>An element that represents single person.</p>												
namespace	http://cnx.rice.edu/mdml												
properties	content complex												
children	<a href="#">firstname</a> <a href="#">surname</a> <a href="#">fullname</a> <a href="#">email</a>												
used by	element <a href="#">actors</a>												
attributes	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td><a href="#">userid</a></td> <td>xs:string</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	<a href="#">userid</a>	xs:string				
Name	Type	Use	Default	Fixed	Annotation								
<a href="#">userid</a>	xs:string												
annotation	<p>documentation</p> <p>An element that represents single person.</p>												
source	<pre>&lt;xs:element name="person"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;An element that represents single person.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt;   &lt;xs:complexType&gt;     &lt;xs:all&gt;       &lt;xs:element name="firstname" type="xs:string"/&gt;       &lt;xs:element name="surname" type="xs:string"/&gt;       &lt;xs:element name="fullname" type="xs:string"/&gt;       &lt;xs:element name="email" type="xs:string" minOccurs="0"/&gt;     &lt;/xs:all&gt;     &lt;xs:attribute name="userid" type="xs:string"/&gt;   &lt;/xs:complexType&gt; &lt;/xs:element&gt;</pre>												

## attribute person/@userid

type	xs:string
source	<xs:attribute name="userid" type="xs:string"/>

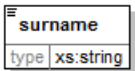
## element person/firstname

diagram	
---------	--

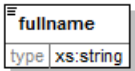


namespace	http://cnx.rice.edu/mdml
type	<b>xs:string</b>
properties	content simple
source	<code>&lt;xs:element name="firstname" type="xs:string"/&gt;</code>


#### element person/surname

diagram	
namespace	http://cnx.rice.edu/mdml
type	<b>xs:string</b>
properties	content simple
source	<code>&lt;xs:element name="surname" type="xs:string"/&gt;</code>

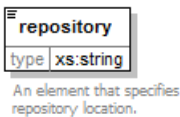
#### element person/fullname

diagram	
namespace	http://cnx.rice.edu/mdml
type	<b>xs:string</b>
properties	content simple
source	<code>&lt;xs:element name="fullname" type="xs:string"/&gt;</code>

#### element person/email

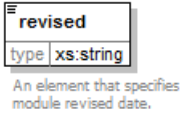
diagram	
namespace	http://cnx.rice.edu/mdml
type	<b>xs:string</b>
properties	minOcc 0 maxOcc 1 content simple
source	<code>&lt;xs:element name="email" type="xs:string" minOccurs="0"/&gt;</code>

#### element repository

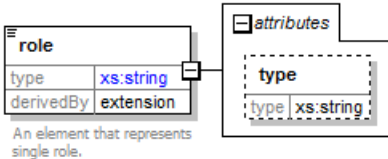
diagram	
namespace	http://cnx.rice.edu/mdml

type	<b>xs:string</b>
properties	content simple
used by	element <a href="#">metadata</a>
annotation	documentation An element that specifies repository location.
source	<pre>&lt;xs:element name="repository" type="xs:string"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;An element that specifies repository location.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt; &lt;/xs:element&gt;</pre>

### element revised

diagram	
namespace	http://cnx.rice.edu/mdml
type	<b>xs:string</b>
properties	content simple
used by	element <a href="#">metadata</a>
annotation	documentation An element that specifies module revised date.
source	<pre>&lt;xs:element name="revised" type="xs:string"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;An element that specifies module revised date.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt; &lt;/xs:element&gt;</pre>

### element role

diagram													
namespace	http://cnx.rice.edu/mdml												
type	extension of <b>xs:string</b>												
properties	content complex												
used by	element <a href="#">roles</a>												
attributes	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td><a href="#">type</a></td> <td><b>xs:string</b></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	<a href="#">type</a>	<b>xs:string</b>				
Name	Type	Use	Default	Fixed	Annotation								
<a href="#">type</a>	<b>xs:string</b>												
annotation	documentation An element that represents single role.												
source	<pre>&lt;xs:element name="role"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;An element that represents single role.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt; &lt;/xs:element&gt;</pre>												

	<pre> &lt;/xs:annotation&gt; &lt;xs:complexType&gt;   &lt;xs:simpleContent&gt;     &lt;xs:extension base="xs:string"&gt;       &lt;xs:attribute name="type" type="xs:string"/&gt;     &lt;/xs:extension&gt;   &lt;/xs:simpleContent&gt; &lt;/xs:complexType&gt; &lt;/xs:element&gt; </pre>
--	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

### attribute `role/@type`

type	<code>xs:string</code>
source	<code>&lt;xs:attribute name="type" type="xs:string"/&gt;</code>

### element `roles`

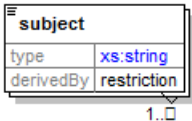
diagram	
namespace	<code>http://cnx.rice.edu/mdml</code>
properties	content complex
children	<a href="#">role</a>
used by	element <a href="#">metadata</a>
annotation	documentation An element that represents list of roles object.
source	<pre> &lt;xs:element name="roles"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;An element that represents list of roles object.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt;   &lt;xs:complexType&gt;     &lt;xs:sequence&gt;       &lt;xs:element ref="role" minOccurs="1" maxOccurs="unbounded"/&gt;     &lt;/xs:sequence&gt;   &lt;/xs:complexType&gt; &lt;/xs:element&gt; </pre>

### element `subjectlist`

diagram	
namespace	<code>http://cnx.rice.edu/mdml</code>


properties	content complex
children	<a href="#">subject</a>
used by	element <a href="#">metadata</a>
annotation	documentation An element that specifies list of subject associated with collection.
source	<pre> &lt;xs:element name="subjectlist"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;An element that specifies list of subject associated with collection.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt;   &lt;xs:complexType&gt;     &lt;xs:sequence&gt;       &lt;xs:element name="subject" minOccurs="1" maxOccurs="unbounded"&gt;         &lt;xs:annotation&gt;           &lt;xs:documentation&gt;An element that represents single subject from restriction list of possible values.&lt;/xs:documentation&gt;         &lt;/xs:annotation&gt;         &lt;xs:simpleType&gt;           &lt;xs:restriction base="xs:string"&gt;             &lt;xs:enumeration value="matematyka"/&gt;             &lt;xs:enumeration value="język polski"/&gt;             &lt;xs:enumeration value="fizyka"/&gt;             &lt;xs:enumeration value="chemia"/&gt;             &lt;xs:enumeration value="biologia"/&gt;             &lt;xs:enumeration value="geografia"/&gt;             &lt;xs:enumeration value="przyroda"/&gt;             &lt;xs:enumeration value="edukacja wczesnoszkolna"/&gt;             &lt;xs:enumeration value="historia i społeczeństwo"/&gt;             &lt;xs:enumeration value="historia"/&gt;             &lt;xs:enumeration value="informatyka"/&gt;             &lt;xs:enumeration value="zajęcia komputerowe"/&gt;             &lt;xs:enumeration value="wiedza o społeczeństwie"/&gt;             &lt;xs:enumeration value="edukacja dla bezpieczeństwa"/&gt;           &lt;/xs:restriction&gt;         &lt;/xs:simpleType&gt;       &lt;/xs:element&gt;     &lt;/xs:sequence&gt;   &lt;/xs:complexType&gt; &lt;/xs:element&gt; </pre>

### element **subjectlist/subject**

diagram	 <p>An element that represents single subject from restriction list of possible values.</p>
namespace	http://cnx.rice.edu/mdml
type	restriction of <b>xs:string</b>
properties	minOcc 1 maxOcc unbounded

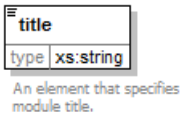
	content	simple	
facets	Kind	Value	Annotation
	enumeration	matematyka	
	enumeration	język polski	
	enumeration	fizyka	
	enumeration	chemia	
	enumeration	biologia	
	enumeration	geografia	
	enumeration	przyroda	
	enumeration	edukacja wczesnoszkolna	
	enumeration	historia i społeczeństwo	
	enumeration	historia	
	enumeration	informatyka	
	enumeration	zajęcia komputerowe	
	enumeration	wiedza o społeczeństwie	
	enumeration	edukacja dla bezpieczeństwa	
annotation	documentation	An element that represents single subject from restriction list of possible values.	
source	<pre> &lt;xs:element name="subject" minOccurs="1" maxOccurs="unbounded"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;An element that represents single subject from restriction list of possible values.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt;   &lt;xs:simpleType&gt;     &lt;xs:restriction base="xs:string"&gt;       &lt;xs:enumeration value="matematyka"/&gt;       &lt;xs:enumeration value="język polski"/&gt;       &lt;xs:enumeration value="fizyka"/&gt;       &lt;xs:enumeration value="chemia"/&gt;       &lt;xs:enumeration value="biologia"/&gt;       &lt;xs:enumeration value="geografia"/&gt;       &lt;xs:enumeration value="przyroda"/&gt;       &lt;xs:enumeration value="edukacja wczesnoszkolna"/&gt;       &lt;xs:enumeration value="historia i społeczeństwo"/&gt;       &lt;xs:enumeration value="historia"/&gt;       &lt;xs:enumeration value="informatyka"/&gt;       &lt;xs:enumeration value="zajęcia komputerowe"/&gt;       &lt;xs:enumeration value="wiedza o społeczeństwie"/&gt;       &lt;xs:enumeration value="edukacja dla bezpieczeństwa"/&gt;     &lt;/xs:restriction&gt;   &lt;/xs:simpleType&gt; &lt;/xs:element&gt; </pre>		

### element subtitle

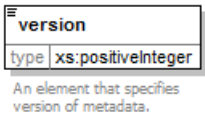
diagram	 <p>An element that specifies module subtitle.</p>
namespace	http://cnx.rice.edu/mdml
type	<b>xs:string</b>

properties	content simple
used by	elements <a href="#">metadata module</a>
annotation	documentation An element that specifies module subtitle.
source	<pre>&lt;xs:element name="subtitle" type="xs:string"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;An element that specifies module subtitle.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt; &lt;/xs:element&gt;</pre>

### element title

diagram	
namespace	http://cnx.rice.edu/mdml
type	<b>xs:string</b>
properties	content simple
used by	elements <a href="#">metadata module subcollection</a>
annotation	documentation An element that specifies module title.
source	<pre>&lt;xs:element name="title" type="xs:string"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;An element that specifies module title.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt; &lt;/xs:element&gt;</pre>

### element version

diagram	
namespace	http://cnx.rice.edu/mdml
type	<b>xs:positiveInteger</b>
properties	content simple
used by	element <a href="#">metadata</a>
annotation	documentation An element that specifies version of metadata.
source	<pre>&lt;xs:element name="version" type="xs:positiveInteger"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;An element that specifies version of metadata.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt; &lt;/xs:element&gt;</pre>

## element collection-header

diagram							
namespace	http://epodreczniki.pl/						
properties	content complex						
children	<a href="#">reference</a>						
used by	element <a href="#">references</a>						
attributes	Name	Type	Use	Default	Fixed	Annotation documentation	
	<a href="#">title-presentation</a>	derived by: xs:string				An attribute that specifies title theme color.	
annotation	documentation An element that specifies womi to be used on details page of e-textbook on epodreczniki.pl portal.						
source	<pre> &lt;xs:element name="collection-header"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;An element that specifies womi to be used on details page of e-textbook on epodreczniki.pl portal.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt;   &lt;xs:complexType&gt;     &lt;xs:all&gt;       &lt;xs:element name="reference" type="type-link-reference"&gt;         &lt;xs:annotation&gt;           &lt;xs:documentation&gt;An element that specifies womi to be used in ep:collection-header.&lt;/xs:documentation&gt;         &lt;/xs:annotation&gt;       &lt;/xs:element&gt;     &lt;/xs:all&gt;   &lt;xs:attribute name="title-presentation"&gt;     &lt;xs:annotation&gt;       &lt;xs:documentation&gt;An attribute that specifies title theme color.&lt;/xs:documentation&gt;     &lt;/xs:annotation&gt;     &lt;xs:simpleType&gt;       &lt;xs:restriction base="xs:string"&gt;         &lt;xs:enumeration value="dark"/&gt;         &lt;xs:enumeration value="light"/&gt;       &lt;/xs:restriction&gt;     &lt;/xs:simpleType&gt;   &lt;/xs:attribute&gt; &lt;/xs:complexType&gt; &lt;/xs:element&gt; </pre>						

attribute **collection-header/@title-presentation**

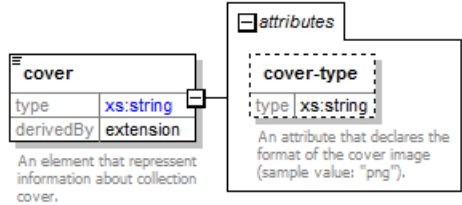
type	restriction of <b>xs:string</b>									
facets	<table border="1"> <tr> <td>Kind</td> <td>Value</td> <td>Annotation</td> </tr> <tr> <td>enumeration</td> <td>dark</td> <td></td> </tr> <tr> <td>enumeration</td> <td>light</td> <td></td> </tr> </table>	Kind	Value	Annotation	enumeration	dark		enumeration	light	
Kind	Value	Annotation								
enumeration	dark									
enumeration	light									
annotation	documentation An attribute that specifies title theme color.									
source	<pre>&lt;xs:attribute name="title-presentation"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;An attribute that specifies title theme color.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt;   &lt;xs:simpleType&gt;     &lt;xs:restriction base="xs:string"&gt;       &lt;xs:enumeration value="dark"/&gt;       &lt;xs:enumeration value="light"/&gt;     &lt;/xs:restriction&gt;   &lt;/xs:simpleType&gt; &lt;/xs:attribute&gt;</pre>									

element **collection-header/reference**

diagram	<p>The diagram illustrates the structure of the <code>reference</code> element. It is a complex type with a <code>type-link-reference</code> attribute. This attribute points to a <code>type-link-reference</code> class, which contains an <code>attributes</code> container. Inside <code>attributes</code>, there is an <code>id</code> attribute (of type <code>type-not-empty-string</code>) and a <code>link</code> attribute (of type <code>link</code>, with a cardinality of <code>0..1</code>). The <code>reference</code> class is described as 'An element that specifies womi to be used in ep:collection-header.' The <code>type-link-reference</code> class is described as 'An element that contains link reference for related table of content and module.'</p>												
namespace	http://epodreczniki.pl/												
type	<a href="#">type-link-reference</a>												
properties	content complex												
children	<a href="#">link</a>												
attributes	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td><a href="#">id</a></td> <td><a href="#">type-not-empty-string</a></td> <td></td> <td></td> <td></td> <td>documentation An attribute that represent id of element.</td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	<a href="#">id</a>	<a href="#">type-not-empty-string</a>				documentation An attribute that represent id of element.
Name	Type	Use	Default	Fixed	Annotation								
<a href="#">id</a>	<a href="#">type-not-empty-string</a>				documentation An attribute that represent id of element.								
annotation	documentation An element that specifies womi to be used in ep:collection-header.												
source	<pre>&lt;xs:element name="reference" type="type-link-reference"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;An element that specifies womi to be used in ep:collection- header.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt; &lt;/xs:element&gt;</pre>												



## element cover

diagram							
namespace	http://epodreczniki.pl/						
type	extension of <b>xs:string</b>						
properties	content complex						
used by	element <a href="#">e-textbook</a>						
attributes	Name	Type	Use	Default	Fixed	Annotation documentation	
	<a href="#">cover-type</a>	<b>xs:string</b>				An attribute that declares the format of the cover image (sample value: "png").	
annotation	documentation An element that represent information about collection cover.						
source	<pre> &lt;xs:element name="cover"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;An element that represent information about collection cover.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt;   &lt;xs:complexType&gt;     &lt;xs:simpleContent&gt;       &lt;xs:extension base="xs:string"&gt;         &lt;xs:attribute name="cover-type" type="xs:string" form="qualified"&gt;           &lt;xs:annotation&gt;             &lt;xs:documentation&gt;An attribute that declares the format of the cover image (sample value: "png").&lt;/xs:documentation&gt;           &lt;/xs:annotation&gt;         &lt;/xs:attribute&gt;       &lt;/xs:extension&gt;     &lt;/xs:simpleContent&gt;   &lt;/xs:complexType&gt; &lt;/xs:element&gt; </pre>						

## attribute cover/@cover-type

namespace	http://epodreczniki.pl/						
type	<b>xs:string</b>						
properties	form qualified						
annotation	documentation An attribute that declares the format of the cover image (sample value: "png").						
source	<pre> &lt;xs:attribute name="cover-type" type="xs:string" form="qualified"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;An attribute that declares the format of the cover image (sample value: </pre>						

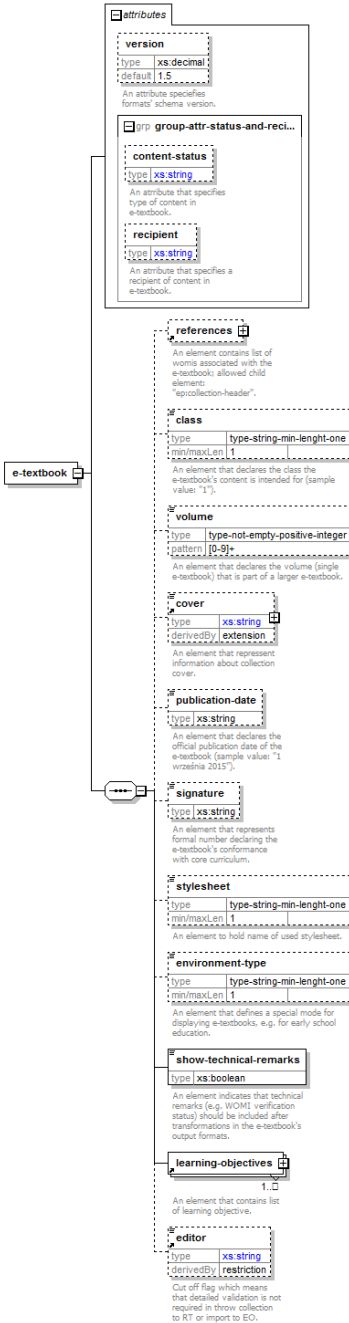
```

"png").</xs:documentation>
</xs:annotation>
</xs:attribute>

```

## element e-textbook

diagram



namespace `http://epodreczniki.pl/`

properties `content` `complex`

children [references](#) [class](#) [volume](#) [cover](#) [publication-date](#) [signature](#) [stylesheet](#) [environment-type](#) [show-technical-remarks](#) [learning-objectives](#) [editor](#)

used by	element <a href="#">metadata</a>					
attributes	Name	Type	Use	Default	Fixed	Annotation documentation
	<a href="#">version</a>	<b>xs:decimal</b>		1.5		An attribute specifies formats' schema version.
	<a href="#">content-status</a>	<b>derived by:</b> <b>xs:string</b>				documentation An attribute that specifies type of content in e-textbook.
	<a href="#">recipient</a>	<b>derived by:</b> <b>xs:string</b>				documentation An attribute that specifies a recipient of content in e-textbook.
source	<pre> &lt;xs:element name="e-textbook"&gt;   &lt;xs:complexType&gt;     &lt;xs:sequence&gt;       &lt;xs:element ref="references" minOccurs="0"/&gt;       &lt;xs:element name="class" type="type-string-min-length-one" minOccurs="0"&gt;         &lt;xs:annotation&gt;           &lt;xs:documentation&gt;An element that declares the class the e-textbook's content is intended for (sample value: "1").&lt;/xs:documentation&gt;         &lt;/xs:annotation&gt;       &lt;/xs:element&gt;       &lt;xs:element name="volume" type="type-not-empty-positive-integer" minOccurs="0"&gt;         &lt;xs:annotation&gt;           &lt;xs:documentation&gt;An element that declares the volume (single e-textbook) that is part of a larger e-textbook.&lt;/xs:documentation&gt;         &lt;/xs:annotation&gt;       &lt;/xs:element&gt;       &lt;xs:element ref="cover" minOccurs="0"/&gt;       &lt;xs:element name="publication-date" type="xs:string" minOccurs="0"&gt;         &lt;xs:annotation&gt;           &lt;xs:documentation&gt;An element that declares the official publication date of the e-textbook (sample value: "1 września 2015").&lt;/xs:documentation&gt;         &lt;/xs:annotation&gt;       &lt;/xs:element&gt;       &lt;xs:element name="signature" type="xs:string" minOccurs="0"&gt;         &lt;xs:annotation&gt;           &lt;xs:documentation&gt;An element that represents formal number declaring the e-textbook's conformance with core curriculum.&lt;/xs:documentation&gt;         &lt;/xs:annotation&gt;       &lt;/xs:element&gt;       &lt;xs:element name="stylesheet" type="type-string-min-length-one" minOccurs="0"&gt;         &lt;xs:annotation&gt;           &lt;xs:documentation&gt;An element to hold name of used stylesheet.&lt;/xs:documentation&gt;         &lt;/xs:annotation&gt;       &lt;/xs:element&gt;       &lt;xs:element name="environment-type" type="type-string-min-length-one" minOccurs="0"&gt;         &lt;xs:annotation&gt;           &lt;xs:documentation&gt;An element that defines a special mode for displaying e-textbooks, e.g. for early school education.&lt;/xs:documentation&gt;         &lt;/xs:annotation&gt;       &lt;/xs:element&gt;     &lt;/xs:sequence&gt;   &lt;/xs:complexType&gt; &lt;/xs:element&gt; </pre>					

	<pre> &lt;/xs:element&gt; &lt;xs:element name="show-technical-remarks" type="xs:boolean"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;An element indicates that technical remarks (e.g. WOMI verification status) should be included after transformations in the e-textbook's output formats.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt; &lt;/xs:element&gt; &lt;xs:element ref="learning-objectives" maxOccurs="unbounded"/&gt; &lt;xs:element ref="editor" minOccurs="0"/&gt; &lt;/xs:sequence&gt; &lt;xs:attribute name="version" type="xs:decimal" default="1.5" form="qualified"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;An attribute specifies formats' schema version.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt; &lt;/xs:attribute&gt; &lt;xs:attributeGroup ref="group-attr-status-and-recipient"/&gt; &lt;/xs:complexType&gt; &lt;/xs:element&gt; </pre>
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#### attribute e-textbook/@version

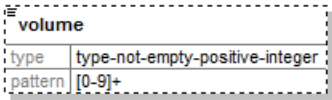
namespace	http://epodreczniki.pl/
type	<b>xs:decimal</b>
properties	default 1.5 form qualified
annotation	documentation An attribute specifies formats' schema version.
source	<pre> &lt;xs:attribute name="version" type="xs:decimal" default="1.5" form="qualified"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;An attribute specifies formats' schema version.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt; &lt;/xs:attribute&gt; </pre>

#### element e-textbook/class

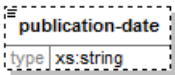
diagram	
namespace	http://epodreczniki.pl/
type	<a href="#">type-string-min-length-one</a>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation minLength 1
annotation	documentation An element that declares the class the e-textbook's content is intended for (sample value: "1").
source	<pre> &lt;xs:element name="class" type="type-string-min-length-one" minOccurs="0"&gt;   &lt;xs:annotation&gt; </pre>

	<pre>&lt;xs:documentation&gt;An element that declares the class the e-textbook's content is intended for (sample value: "1").&lt;/xs:documentation&gt; &lt;/xs:annotation&gt; &lt;/xs:element&gt;</pre>
--	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

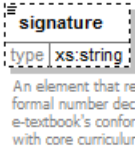
### element e-textbook/volume

diagram	 <pre> volume type type-not-empty-positive-integer pattern [0-9]+ </pre> <p>An element that declares the volume (single e-textbook) that is part of a larger e-textbook.</p>
namespace	http://epodreczniki.pl/
type	<a href="#">type-not-empty-positive-integer</a>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation pattern [0-9]+
annotation	documentation An element that declares the volume (single e-textbook) that is part of a larger e-textbook.
source	<pre>&lt;xs:element name="volume" type="type-not-empty-positive-integer" minOccurs="0"&gt; &lt;xs:annotation&gt; &lt;xs:documentation&gt;An element that declares the volume (single e-textbook) that is part of a larger e-textbook.&lt;/xs:documentation&gt; &lt;/xs:annotation&gt; &lt;/xs:element&gt;</pre>

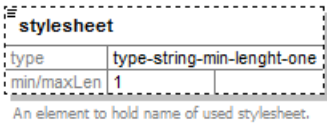
### element e-textbook/publication-date

diagram	 <pre> publication-date type xs:string </pre> <p>An element that declares the official publication date of the e-textbook (sample value: "1 września 2015").</p>
namespace	http://epodreczniki.pl/
type	<b>xs:string</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation An element that declares the official publication date of the e-textbook (sample value: "1 września 2015").
source	<pre>&lt;xs:element name="publication-date" type="xs:string" minOccurs="0"&gt; &lt;xs:annotation&gt; &lt;xs:documentation&gt;An element that declares the official publication date of the e-textbook (sample value: "1 września 2015").&lt;/xs:documentation&gt; &lt;/xs:annotation&gt; &lt;/xs:element&gt;</pre>

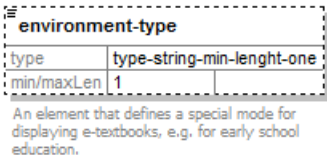
### element e-textbook/signature

diagram	
namespace	http://epodreczniki.pl/
type	<b>xs:string</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation An element that represents formal number declaring the e-textbook's conformance with core curriculum.
source	<pre>&lt;xs:element name="signature" type="xs:string" minOccurs="0"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;An element that represents formal number declaring the e-textbook's conformance with core curriculum.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt; &lt;/xs:element&gt;</pre>

### element e-textbook/stylesheet

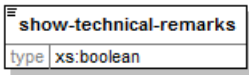
diagram							
namespace	http://epodreczniki.pl/						
type	<a href="#">type-string-min-length-one</a>						
properties	minOcc 0 maxOcc 1 content simple						
facets	<table border="1"> <thead> <tr> <th>Kind</th> <th>Value</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td>minLength</td> <td>1</td> <td></td> </tr> </tbody> </table>	Kind	Value	Annotation	minLength	1	
Kind	Value	Annotation					
minLength	1						
annotation	documentation An element to hold name of used stylesheet.						
source	<pre>&lt;xs:element name="stylesheet" type="type-string-min-length-one" minOccurs="0"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;An element to hold name of used stylesheet.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt; &lt;/xs:element&gt;</pre>						

### element e-textbook/environment-type


diagram	
namespace	http://epodreczniki.pl/

type	<a href="#">type-string-min-length-one</a>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation minLength 1
annotation	documentation An element that defines a special mode for displaying e-textbooks, e.g. for early school education.
source	<pre>&lt;xs:element name="environment-type" type="type-string-min-length-one" minOccurs="0"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;An element that defines a special mode for displaying e-textbooks, e.g. for     early school education.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt; &lt;/xs:element&gt;</pre>

### element **e-textbook/show-technical-remarks**

diagram	 <pre> show-technical-remarks type xs:boolean </pre> <p>An element indicates that technical remarks (e.g. WOMI verification status) should be included after transformations in the e-textbook's output formats.</p>
namespace	http://epodreczniki.pl/
type	<b>xs:boolean</b>
properties	content simple
annotation	documentation An element indicates that technical remarks (e.g. WOMI verification status) should be included after transformations in the e-textbook's output formats.
source	<pre>&lt;xs:element name="show-technical-remarks" type="xs:boolean"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;An element indicates that technical remarks (e.g. WOMI verification status)     should be included after transformations in the e-textbook's output formats.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt; &lt;/xs:element&gt;</pre>

### element **editor**

diagram	 <pre> editor type xs:string derivedBy restriction </pre> <p>Cut off flag which means that detailed validation is not required in throw collection to RT or import to EO.</p>
namespace	http://epodreczniki.pl/
type	restriction of <b>xs:string</b>
properties	content simple
used by	element <a href="#">e-textbook</a>
facets	Kind Value Annotation enumeration external-in- documentation

	<p>progress documentation Version was thrown from outer editor. The next versions will be throw from outer editor also.</p> <p>enumeration external-final documentation Last version was thrown from outer editor. There will not be next versions.</p> <p>enumeration edition-online documentation Version was thrown (sealed) from EO.</p>
annotation	<p>documentation Cut off flag which means that detailed validation is not required in throw collection to RT or import to EO.</p>
source	<pre> &lt;xs:element name="editor"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;Cut off flag which means that detailed validation is not required in throw collection to RT or import to EO.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt;   &lt;xs:simpleType&gt;     &lt;xs:restriction base="xs:string"&gt;       &lt;xs:enumeration value="external-in-progress"&gt;         &lt;xs:annotation&gt;           &lt;xs:documentation&gt;Version was thrown from outer editor. The next versions will be throw from outer editor also.&lt;/xs:documentation&gt;         &lt;/xs:annotation&gt;       &lt;/xs:enumeration&gt;       &lt;xs:enumeration value="external-final"&gt;         &lt;xs:annotation&gt;           &lt;xs:documentation&gt;Last version was thrown from outer editor. There will not be next versions.&lt;/xs:documentation&gt;         &lt;/xs:annotation&gt;       &lt;/xs:enumeration&gt;       &lt;xs:enumeration value="edition-online"&gt;         &lt;xs:annotation&gt;           &lt;xs:documentation&gt;Version was thrown (sealed) from EO.&lt;/xs:documentation&gt;         &lt;/xs:annotation&gt;       &lt;/xs:enumeration&gt;     &lt;/xs:restriction&gt;   &lt;/xs:simpleType&gt; &lt;/xs:element&gt; </pre>

### element learning-objectives

diagram	<p>An element that contains list of learning objective.</p>
namespace	http://epodreczniki.pl/
properties	content complex
children	<a href="#">learning-objective</a>
used by	element <a href="#">e-textbook</a>
annotation	<p>documentation An element that contains list of learning objective.</p>
source	<pre> &lt;xs:element name="learning-objectives"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;An element that contains list of learning objective.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt;   &lt;xs:complexType&gt;     &lt;xs:sequence&gt; </pre>



```

<xs:element name="learning-objective" maxOccurs="unbounded">
  <xs:complexType>
    <xs:all>
      <xs:element name="learning-objective-stage" type="type-elem-string-attr-key-qualified">
        <xs:annotation>
          <xs:documentation>An element that declares the education level of the learning
objective.</xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="learning-objective-school" type="type-elem-string-attr-key-qualified">
        <xs:annotation>
          <xs:documentation>An element that declares the school type of the learning
objective.</xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="learning-objective-version" type="type-elem-string-attr-key-qualified">
        <xs:annotation>
          <xs:documentation>An element that declares the version of the learning
objective.</xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="learning-objective-subject" type="type-elem-string-attr-key-qualified"
minOccurs="0">
        <xs:annotation>
          <xs:documentation>An element that declares the subject of the learning
objective.</xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="learning-objective-scope" type="type-elem-string-attr-key-qualified"
minOccurs="0">
        <xs:annotation>
          <xs:documentation>An element that declares the scope of the learning objective (e.g.
elementary, expanding).</xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="learning-objective-text" type="xs:string" minOccurs="0">
        <xs:annotation>
          <xs:documentation>An element that contains detailed text description of the learning
objective (sample value: "A student interprets mathematical text. After solving an exercise, he
interprets the result").</xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="learning-objective-name" type="type-elem-string-attr-key-qualified">
        <xs:annotation>
          <xs:documentation>An element that represents general text description of the learning
objective (sample value: "Creating and using information").</xs:documentation>
        </xs:annotation>
      </xs:element>
    </xs:all>
  </xs:complexType>
</xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>

```

## element learning-objectives/learning-objective

<p>diagram</p>	<p><b>learning-objective</b> 1..∞</p> <ul style="list-style-type: none"> <li><b>learning-objective-stage</b> type   type-elem-string-attr-key-qualifi... An element that declares the education level of the learning objective.</li> <li><b>learning-objective-school</b> type   type-elem-string-attr-key-qualifi... An element that declares the school type of the learning objective.</li> <li><b>learning-objective-version</b> type   type-elem-string-attr-key-qualifi... An element that declares the version of the learning objective.</li> <li><b>learning-objective-subject</b> type   type-elem-string-attr-key-qualifi... An element that declares the subject of the learning objective.</li> <li><b>learning-objective-scope</b> type   type-elem-string-attr-key-qualifi... An element that declares the scope of the learning objective (e.g. elementary, expanding).</li> <li><b>learning-objective-text</b> type   xs:string An element that contains detailed text description of the learning objective (sample value: "A student interprets mathematical text. After solving an exercise, he interprets the result").</li> <li><b>learning-objective-name</b> type   type-elem-string-attr-key-qualifi... An element that represents general text description of the learning objective (sample value: "Creating and using information").</li> </ul>
<p>namespace</p>	<p>http://epodreczniki.pl/</p>
<p>properties</p>	<p>minOcc 1 maxOcc unbounded content complex</p>
<p>children</p>	<p><a href="#">learning-objective-stage</a> <a href="#">learning-objective-school</a> <a href="#">learning-objective-version</a> <a href="#">learning-objective-subject</a> <a href="#">learning-objective-scope</a> <a href="#">learning-objective-text</a> <a href="#">learning-objective-name</a></p>
<p>source</p>	<pre>&lt;xs:element name="learning-objective" maxOccurs="unbounded"&gt;   &lt;xs:complexType&gt;     &lt;xs:all&gt;       &lt;xs:element name="learning-objective-stage" type="type-elem-string-attr-key-qualified"&gt;         &lt;xs:annotation&gt;           &lt;xs:documentation&gt;An element that declares the education level of the learning objective.&lt;/xs:documentation&gt;         &lt;/xs:annotation&gt;       &lt;/xs:element&gt;       &lt;xs:element name="learning-objective-school" type="type-elem-string-attr-key-qualified"&gt;         &lt;xs:annotation&gt;           &lt;xs:documentation&gt;An element that declares the school type of the learning objective.&lt;/xs:documentation&gt;</pre>

```

</xs:annotation>
</xs:element>
<xs:element name="learning-objective-version" type="type-elem-string-attr-key-qualified">
  <xs:annotation>
    <xs:documentation>An element that declares the version of the learning
objective.</xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="learning-objective-subject" type="type-elem-string-attr-key-qualified"
minOccurs="0">
  <xs:annotation>
    <xs:documentation>An element that declares the subject of the learning
objective.</xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="learning-objective-scope" type="type-elem-string-attr-key-qualified"
minOccurs="0">
  <xs:annotation>
    <xs:documentation>An element that declares the scope of the learning objective (e.g.
elementary, expanding).</xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="learning-objective-text" type="xs:string" minOccurs="0">
  <xs:annotation>
    <xs:documentation>An element that contains detailed text description of the learning
objective (sample value: "A student interprets mathematical text. After solving an exercise, he
interprets the result").</xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="learning-objective-name" type="type-elem-string-attr-key-qualified">
  <xs:annotation>
    <xs:documentation>An element that represents general text description of the learning
objective (sample value: "Creating and using information").</xs:documentation>
  </xs:annotation>
</xs:element>
</xs:all>
</xs:complexType>
</xs:element>

```

**element learning-objectives/learning-objective/learning-objective-stage**

<p>diagram</p>	
<p>namespace</p>	<p>http://epodreczniki.pl/</p>
<p>type</p>	<p><a href="#">type-elem-string-attr-key-qualified</a></p>
<p>properties</p>	<p>content complex</p>

attributes	Name <a href="#">key</a>	Type <b>xs:string</b>	Use	Default	Fixed	Annotation documentation A coded representation of an element of the object.
annotation	documentation An element that declares the education level of the learning objective.					
source	<pre>&lt;xs:element name="learning-objective-stage" type="type-elem-string-attr-key-qualified"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;An element that declares the education level of the learning     objective.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt; &lt;/xs:element&gt;</pre>					

### element **learning-objectives/learning-objective/learning-objective-school**

diagram						
namespace	http://epodreczniki.pl/					
type	<a href="#">type-elem-string-attr-key-qualified</a>					
properties	content complex					
attributes	Name <a href="#">key</a>	Type <b>xs:string</b>	Use	Default	Fixed	Annotation documentation A coded representation of an element of the object.
annotation	documentation An element that declares the school type of the learning objective.					
source	<pre>&lt;xs:element name="learning-objective-school" type="type-elem-string-attr-key-qualified"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;An element that declares the school type of the learning     objective.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt; &lt;/xs:element&gt;</pre>					

### element learning-objectives/learning-objective/learning-objective-version

diagram						
namespace	http://epodreczniki.pl/					
type	<a href="#">type-elem-string-attr-key-qualified</a>					
properties	content complex					
attributes	Name	Type	Use	Default	Fixed	Annotation documentation
	<a href="#">key</a>	xs:string				A coded representation of an element of the object.
annotation	documentation An element that declares the version of the learning objective.					
source	<pre>&lt;xs:element name="learning-objective-version" type="type-elem-string-attr-key-qualified"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;An element that declares the version of the learning     objective.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt; &lt;/xs:element&gt;</pre>					

### element learning-objectives/learning-objective/learning-objective-subject

diagram						
namespace	http://epodreczniki.pl/					
type	<a href="#">type-elem-string-attr-key-qualified</a>					
properties	minOcc	0	maxOcc	1	content complex	
attributes	Name	Type	Use	Default	Fixed	Annotation documentation
	<a href="#">key</a>	xs:string				A coded representation of an element of the object.
annotation	documentation An element that declares the subject of the learning objective.					
source	<pre>&lt;xs:element name="learning-objective-subject" type="type-elem-string-attr-key-qualified"   minOccurs="0"&gt;</pre>					

	<pre> &lt;xs:annotation&gt;   &lt;xs:documentation&gt;An element that declares the subject of the learning objective.&lt;/xs:documentation&gt; &lt;/xs:annotation&gt; &lt;/xs:element&gt; </pre>
--	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

**element learning-objectives/learning-objective/learning-objective-scope**

diagram						
namespace	http://epodreczniki.pl/					
type	<a href="#">type-elem-string-attr-key-qualified</a>					
properties	minOcc	0	maxOcc	1	content	complex
attributes	Name	Type	Use	Default	Fixed	Annotation documentation
	<a href="#">key</a>	<b>xs:string</b>				A coded representation of an element of the object.
annotation	documentation An element that declares the scope of the learning objective (e.g. elementary, expanding).					
source	<pre> &lt;xs:element name="learning-objective-scope" type="type-elem-string-attr-key-qualified" minOccurs="0"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;An element that declares the scope of the learning objective (e.g. elementary, expanding).&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt; &lt;/xs:element&gt; </pre>					

**element learning-objectives/learning-objective/learning-objective-text**

diagram						
namespace	http://epodreczniki.pl/					
type	<b>xs:string</b>					
properties	minOcc	0	maxOcc	1	content	simple
annotation	documentation					

	An element that contains detailed text description of the learning objective (sample value: "A student interprets mathematical text. After solving an exercise, he interprets the result").
source	<pre>&lt;xs:element name="learning-objective-text" type="xs:string" minOccurs="0"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;An element that contains detailed text description of the learning objective     (sample value: "A student interprets mathematical text. After solving an exercise, he interprets the     result").&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt; &lt;/xs:element&gt;</pre>


### element `learning-objectives/learning-objective/learning-objective-name`

diagram													
namespace	<a href="http://epodreczniki.pl/">http://epodreczniki.pl/</a>												
type	<a href="#">type-elem-string-attr-key-qualified</a>												
properties	content complex												
attributes	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>Annotation documentation</th> </tr> </thead> <tbody> <tr> <td><a href="#">key</a></td> <td><b>xs:string</b></td> <td></td> <td></td> <td></td> <td>A coded representation of an element of the object.</td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation documentation	<a href="#">key</a>	<b>xs:string</b>				A coded representation of an element of the object.
Name	Type	Use	Default	Fixed	Annotation documentation								
<a href="#">key</a>	<b>xs:string</b>				A coded representation of an element of the object.								
annotation	<p>documentation</p> <p>An element that represents general text description of the learning objective (sample value: "Creating and using information").</p>												
source	<pre>&lt;xs:element name="learning-objective-name" type="type-elem-string-attr-key-qualified"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;An element that represents general text description of the learning objective     (sample value: "Creating and using information").&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt; &lt;/xs:element&gt;</pre>												

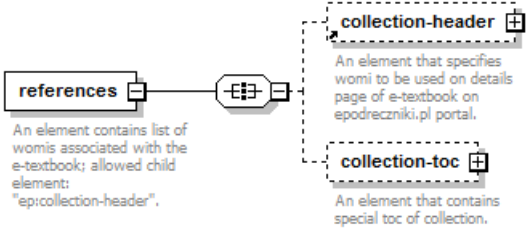
### element `origin-id`

diagram	
namespace	<a href="http://epodreczniki.pl/">http://epodreczniki.pl/</a>
type	<b>xs:string</b>
properties	content simple
used by	element <a href="#">metadata</a>
source	<pre>&lt;xs:element name="origin-id" type="xs:string"/&gt;</pre>

## element origin-version

diagram	
namespace	http://epodreczniki.pl/
type	<b>xs:string</b>
properties	content simple
used by	element <a href="#">metadata</a>
source	<code>&lt;xs:element name="origin-version" type="xs:string"/&gt;</code>

## element references

diagram	 <p>An element contains list of womis associated with the e-textbook; allowed child element: "ep:collection-header".</p> <p>An element that specifies womi to be used on details page of e-textbook on epodreczniki.pl portal.</p> <p>An element that contains special toc of collection.</p>
namespace	http://epodreczniki.pl/
properties	content complex
children	<a href="#">collection-header</a> <a href="#">collection-toc</a>
used by	element <a href="#">e-textbook</a>
annotation	documentation An element contains list of womis associated with the e-textbook; allowed child element: "ep:collection-header".
source	<pre> &lt;xs:element name="references"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;An element contains list of womis associated with the e-textbook; allowed child element: "ep:collection-header".&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt;   &lt;xs:complexType&gt;     &lt;xs:all&gt;       &lt;xs:element ref="collection-header" minOccurs="0"/&gt;       &lt;xs:element name="collection-toc" minOccurs="0"&gt;         &lt;xs:annotation&gt;           &lt;xs:documentation&gt;An element that contains special toc of collection.&lt;/xs:documentation&gt;         &lt;/xs:annotation&gt;       &lt;/xs:element&gt;     &lt;/xs:all&gt;   &lt;/xs:complexType&gt;   &lt;xs:element name="reference" type="type-link-reference"&gt;     &lt;xs:annotation&gt;       &lt;xs:documentation&gt;An element specifies womi to be used in ep:collection- toc.&lt;/xs:documentation&gt;     &lt;/xs:annotation&gt;   &lt;/xs:element&gt; &lt;/xs:all&gt; </pre>



	<pre> &lt;/xs:complexType&gt; &lt;/xs:element&gt; &lt;/xs:all&gt; &lt;/xs:complexType&gt; &lt;/xs:element&gt; </pre>
--	----------------------------------------------------------------------------------------------------------------------

### element references/collection-toc

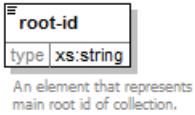
diagram	<p>The diagram shows a dashed box labeled 'collection-toc' containing a solid box labeled 'reference'. The 'reference' box contains a smaller box labeled 'type-link-reference'. Below 'collection-toc' is the text: 'An element that contains special toc of collection.' Below 'reference' is the text: 'An element specifies womi to be used in ep:collection-toc.'</p>
namespace	http://epodreczniki.pl/
properties	minOcc 0 maxOcc 1 content complex
children	<a href="#">reference</a>
annotation	documentation An element that contains special toc of collection.
source	<pre> &lt;xs:element name="collection-toc" minOccurs="0"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;An element that contains special toc of collection.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt;   &lt;xs:complexType&gt;     &lt;xs:all&gt;       &lt;xs:element name="reference" type="type-link-reference"&gt;         &lt;xs:annotation&gt;           &lt;xs:documentation&gt;An element specifies womi to be used in ep:collection-             toc.&lt;/xs:documentation&gt;         &lt;/xs:annotation&gt;       &lt;/xs:element&gt;     &lt;/xs:all&gt;   &lt;/xs:complexType&gt; &lt;/xs:element&gt; </pre>

### element references/collection-toc/reference

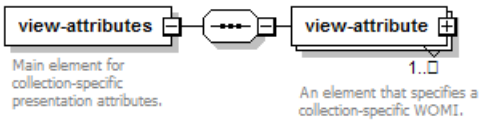
diagram	<p>The diagram shows a dashed box labeled 'type-link-reference' containing an 'attributes' box and a 'link' element. The 'attributes' box contains an 'id' attribute with the type 'type-not-empty-string' and the description 'An attribute that represent id of element.' The 'link' element has a cardinality of '0..1' and the description 'An element that contains link reference for related table of content and module.'</p>
namespace	http://epodreczniki.pl/

type	<a href="#">type-link-reference</a>						
properties	content complex						
children	<a href="#">link</a>						
attributes	Name <a href="#">id</a>	Type <a href="#">type-not-empty-string</a>	Use	Default	Fixed	Annotation documentation An attribute that represent id of element.	
annotation	documentation An element specifies womi to be used in ep:collection-toc.						
source	<pre>&lt;xs:element name="reference" type="type-link-reference"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;An element specifies womi to be used in ep:collection- toc.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt; &lt;/xs:element&gt;</pre>						

### element root-id

diagram							
namespace	http://epodreczniki.pl/						
type	<b>xs:string</b>						
properties	content simple						
used by	element <a href="#">metadata</a>						
annotation	documentation An element that represents main root id of collection.						
source	<pre>&lt;xs:element name="root-id" type="xs:string"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;An element that represents main root id of collection.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt; &lt;/xs:element&gt;</pre>						

### element view-attributes

diagram							
namespace	http://epodreczniki.pl/						
properties	content complex						
children	<a href="#">view-attribute</a>						
used by	element <a href="#">subcollection</a>						
annotation	documentation Main element for collection-specific presentation attributes.						
source	<pre>&lt;xs:element name="view-attributes"&gt;</pre>						

```

<xs:annotation>
  <xs:documentation>Main element for collection-specific presentation
attributes.</xs:documentation>
</xs:annotation>
<xs:complexType>
  <xs:sequence>
    <xs:element name="view-attribute" minOccurs="1" maxOccurs="unbounded">
      <xs:annotation>
        <xs:documentation>An element that specifies a collection-specific
WOMI.</xs:documentation>
      </xs:annotation>
      <xs:complexType>
        <xs:attribute ref="id">
          <xs:annotation>
            <xs:documentation>An identifier for a WOMI used in collection's presentation
attribute.</xs:documentation>
          </xs:annotation>
        </xs:attribute>
        <xs:attribute name="type" type="xs:string" form="qualified">
          <xs:annotation>
            <xs:documentation>An attribute that represents type of the collection's presentation
attribute (sample value: "panorama").</xs:documentation>
          </xs:annotation>
        </xs:attribute>
        <xs:attribute name="value" type="xs:string" form="qualified">
          <xs:annotation>
            <xs:documentation>An attribute that represents value of the collection's presentation
attribute (sample value: "#ABCDEF").</xs:documentation>
          </xs:annotation>
        </xs:attribute>
        <!--<xs:assert test="@ep:type and (@ep:id or @ep:value)"/>-->
      </xs:complexType>
    </xs:element>
  </xs:sequence>
</xs:complexType>
</xs:element>

```

element **view-attributes/view-attribute**

<p>diagram</p>	<p><b>view-attribute</b> 1..∞ An element that specifies a collection-specific WOMI.</p> <p><b>attributes</b></p> <p><b>id</b> type: type-not-empty-string An identifier for a WOMI used in collection's presentation attribute.</p> <p><b>type</b> type: xs:string An attribute that represents type of the collection's presentation attribute (sample value: "panorama").</p> <p><b>value</b> type: xs:string An attribute that represents value of the collection's presentation attribute (sample value: "#ABCDEF").</p>					
<p>namespace</p>	<p>http://epodreczniki.pl/</p>					
<p>properties</p>	<p>minOcc maxOcc content</p>	<p>1 unbounded complex</p>				
<p>attributes</p>	<p>Name <a href="#">id</a>  <a href="#">type</a>  <a href="#">value</a></p>	<p>Type <a href="#">type-not-empty-string</a>  <b>xs:string</b>  <b>xs:string</b></p>	<p>Use</p>	<p>Default</p>	<p>Fixed</p>	<p>Annotation documentation An identifier for a WOMI used in collection's presentation attribute. documentation An attribute that represents type of the collection's presentation attribute (sample value: "panorama"). documentation An attribute that represents value of the collection's presentation attribute (sample value: "#ABCDEF").</p>
<p>annotation</p>	<p>documentation An element that specifies a collection-specific WOMI.</p>					
<p>source</p>	<pre>&lt;xs:element name="view-attribute" minOccurs="1" maxOccurs="unbounded"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;An element that specifies a collection-specific WOMI.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt;   &lt;xs:complexType&gt;     &lt;xs:attribute ref="id"&gt;       &lt;xs:annotation&gt;         &lt;xs:documentation&gt;An identifier for a WOMI used in collection's presentation         attribute.&lt;/xs:documentation&gt;       &lt;/xs:annotation&gt;     &lt;/xs:attribute&gt;   &lt;/xs:complexType&gt; &lt;/xs:element&gt;</pre>					

	<pre> &lt;/xs:annotation&gt; &lt;/xs:attribute&gt; &lt;xs:attribute name="type" type="xs:string" form="qualified"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;An attribute that represents type of the collection's presentation attribute (sample value: "panorama").&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt; &lt;/xs:attribute&gt; &lt;xs:attribute name="value" type="xs:string" form="qualified"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;An attribute that represents value of the collection's presentation attribute (sample value: "#ABCDEF").&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt; &lt;/xs:attribute&gt; &lt;!--&lt;xs:assert test="@ep:type and (@ep:id or @ep:value)"/&gt;--&gt; &lt;/xs:complexType&gt; &lt;/xs:element&gt; </pre>
--	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

#### attribute **view-attributes/view-attribute/@type**

namespace	http://epodreczniki.pl/
type	<b>xs:string</b>
properties	form qualified
annotation	documentation An attribute that represents type of the collection's presentation attribute (sample value: "panorama").
source	<pre> &lt;xs:attribute name="type" type="xs:string" form="qualified"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;An attribute that represents type of the collection's presentation attribute (sample value: "panorama").&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt; &lt;/xs:attribute&gt; </pre>

#### attribute **view-attributes/view-attribute/@value**

namespace	http://epodreczniki.pl/
type	<b>xs:string</b>
properties	form qualified
annotation	documentation An attribute that represents value of the collection's presentation attribute (sample value: "#ABCDEF").
source	<pre> &lt;xs:attribute name="value" type="xs:string" form="qualified"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;An attribute that represents value of the collection's presentation attribute (sample value: "#ABCDEF").&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt; &lt;/xs:attribute&gt; </pre>

## complexType type-link-reference

diagram	<p>The diagram illustrates the structure of the <code>type-link-reference</code> complex type. It consists of an <code>attributes</code> container and a <code>link</code> element. The <code>attributes</code> container includes an <code>id</code> attribute of type <code>type-not-empty-string</code>, with the annotation: "An attribute that represent id of element." The <code>link</code> element is of type <code>link</code> and has a cardinality of <code>0..∞</code>, with the annotation: "An element that contains link reference for related table of content and module."</p>					
namespace	http://epodreczniki.pl/					
children	<a href="#">link</a>					
used by	elements	<a href="#">collection-header/reference</a> <a href="#">references/collection-toc/reference</a>				
attributes	Name	Type	Use	Default	Fixed	Annotation documentation
	<a href="#">id</a>	<a href="#">type-not-empty-string</a>				An attribute that represent id of element.
source	<pre> &lt;xs:complexType name="type-link-reference"&gt;   &lt;xs:sequence&gt;     &lt;xs:element name="link" minOccurs="0" maxOccurs="unbounded"&gt;       &lt;xs:annotation&gt;         &lt;xs:documentation&gt;An element that contains link reference for related table of content and module.&lt;/xs:documentation&gt;       &lt;/xs:annotation&gt;       &lt;xs:complexType&gt;         &lt;xs:attribute name="toc-id" type="type-not-empty-string" form="qualified"&gt;           &lt;xs:annotation&gt;             &lt;xs:documentation&gt;An attribute specifies id of related table of content.&lt;/xs:documentation&gt;           &lt;/xs:annotation&gt;         &lt;/xs:attribute&gt;         &lt;xs:attribute name="module-id" type="type-not-empty-string" form="qualified"&gt;           &lt;xs:annotation&gt;             &lt;xs:documentation&gt;An attribute specifies id of related module.&lt;/xs:documentation&gt;           &lt;/xs:annotation&gt;         &lt;/xs:attribute&gt;       &lt;/xs:complexType&gt;     &lt;/xs:element&gt;   &lt;/xs:sequence&gt;   &lt;xs:attribute ref="id"/&gt; &lt;/xs:complexType&gt; </pre>					

element **type-link-reference/link**

diagram						
namespace	http://epodreczniki.pl/					
properties	minOcc	0	maxOcc	unbounded	content	complex
attributes	Name	Type	Use	Default	Fixed	Annotation
	<a href="#">toc-id</a>	<a href="#">type-not-empty-string</a>				documentation An attribute specifies id of related table of content.
	<a href="#">module-id</a>	<a href="#">type-not-empty-string</a>				documentation An attribute specifies id of related module.
annotation	documentation An element that contains link reference for related table of content and module.					
source	<pre>&lt;xs:element name="link" minOccurs="0" maxOccurs="unbounded"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;An element that contains link reference for related table of content and module.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt;   &lt;xs:complexType&gt;     &lt;xs:attribute name="toc-id" type="type-not-empty-string" form="qualified"&gt;       &lt;xs:annotation&gt;         &lt;xs:documentation&gt;An attribute specifies id of related table of content.&lt;/xs:documentation&gt;       &lt;/xs:annotation&gt;     &lt;/xs:attribute&gt;     &lt;xs:attribute name="module-id" type="type-not-empty-string" form="qualified"&gt;       &lt;xs:annotation&gt;         &lt;xs:documentation&gt;An attribute specifies id of related module.&lt;/xs:documentation&gt;       &lt;/xs:annotation&gt;     &lt;/xs:attribute&gt;   &lt;/xs:complexType&gt; &lt;/xs:element&gt;</pre>					

attribute **type-link-reference/link/@toc-id**

namespace	http://epodreczniki.pl/		
type	<a href="#">type-not-empty-string</a>		
properties	form	qualified	
facets	Kind	Value	Annotation
	pattern	.+	
annotation	documentation		

	An attribute specifies id of related table of content.
source	<pre>&lt;xs:attribute name="toc-id" type="type-not-empty-string" form="qualified"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;An attribute specifies id of related table of content.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt; &lt;/xs:attribute&gt;</pre>

### attribute **type-link-reference/link/@module-id**

namespace	http://epodreczniki.pl/						
type	<a href="#">type-not-empty-string</a>						
properties	form qualified						
facets	<table border="1"> <tr> <td>Kind</td> <td>Value</td> <td>Annotation</td> </tr> <tr> <td>pattern</td> <td>.+</td> <td></td> </tr> </table>	Kind	Value	Annotation	pattern	.+	
Kind	Value	Annotation					
pattern	.+						
annotation	documentation An attribute specifies id of related module.						
source	<pre>&lt;xs:attribute name="module-id" type="type-not-empty-string" form="qualified"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;An attribute specifies id of related module.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt; &lt;/xs:attribute&gt;</pre>						

### attribute **id**

namespace	http://epodreczniki.pl/						
type	<a href="#">type-not-empty-string</a>						
used by	<table border="1"> <tr> <td>elements</td> <td><a href="#">subcollection view-attributes/view-attribute</a></td> </tr> <tr> <td>complexType</td> <td><a href="#">type-link-reference</a></td> </tr> </table>	elements	<a href="#">subcollection view-attributes/view-attribute</a>	complexType	<a href="#">type-link-reference</a>		
elements	<a href="#">subcollection view-attributes/view-attribute</a>						
complexType	<a href="#">type-link-reference</a>						
facets	<table border="1"> <tr> <td>Kind</td> <td>Value</td> <td>Annotation</td> </tr> <tr> <td>pattern</td> <td>.+</td> <td></td> </tr> </table>	Kind	Value	Annotation	pattern	.+	
Kind	Value	Annotation					
pattern	.+						
annotation	documentation An attribute that represent id of element.						
source	<pre>&lt;xs:attribute name="id" type="type-not-empty-string"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;An attribute that represent id of element.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt; &lt;/xs:attribute&gt;</pre>						

### attribute **numbering**

namespace	http://epodreczniki.pl/									
type	<a href="#">type-string-skip-include</a>									
used by	element <a href="#">module</a>									
facets	<table border="1"> <tr> <td>Kind</td> <td>Value</td> <td>Annotation</td> </tr> <tr> <td>enumeration</td> <td>skip</td> <td></td> </tr> <tr> <td>enumeration</td> <td>include</td> <td></td> </tr> </table>	Kind	Value	Annotation	enumeration	skip		enumeration	include	
Kind	Value	Annotation								
enumeration	skip									
enumeration	include									
annotation	documentation An attribute that specifies if a module numbering should be included or skipped in Table Of Content.									
source	<pre>&lt;xs:attribute name="numbering" type="type-string-skip-include"&gt;</pre>									



	<pre> &lt;xs:annotation&gt;   &lt;xs:documentation&gt;An attribute that specifies if a module numbering should be included or   skipped in Table Of Content.&lt;/xs:documentation&gt; &lt;/xs:annotation&gt; &lt;/xs:attribute&gt; </pre>
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### attribute **toc**

namespace	http://epodreczniki.pl/									
type	<a href="#">type-string-skip-include</a>									
used by	element <a href="#">module</a>									
facets	<table border="0"> <tr> <td>Kind</td> <td>Value</td> <td>Annotation</td> </tr> <tr> <td>enumeration</td> <td>skip</td> <td></td> </tr> <tr> <td>enumeration</td> <td>include</td> <td></td> </tr> </table>	Kind	Value	Annotation	enumeration	skip		enumeration	include	
Kind	Value	Annotation								
enumeration	skip									
enumeration	include									
annotation	documentation An attribute that specifies if a module declaration should be included (default value) or skipped in the Table Of Contents.									
source	<pre> &lt;xs:attribute name="toc" type="type-string-skip-include"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;An attribute that specifies if a module declaration should be included (default     value) or skipped in the Table Of Contents.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt; &lt;/xs:attribute&gt; </pre>									

### attributeGroup **group-attr-status-and-recipient**

namespace	http://epodreczniki.pl/																		
used by	element <a href="#">e-textbook</a>																		
attributes	<table border="0"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td><a href="#">content-status</a></td> <td><b>derived by:</b> <b>xs:string</b></td> <td></td> <td></td> <td></td> <td>documentation An attribute that specifies type of content in e-textbook.</td> </tr> <tr> <td><a href="#">recipient</a></td> <td><b>derived by:</b> <b>xs:string</b></td> <td></td> <td></td> <td></td> <td>documentation An attribute that specifies a recipient of content in e-textbook.</td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	<a href="#">content-status</a>	<b>derived by:</b> <b>xs:string</b>				documentation An attribute that specifies type of content in e-textbook.	<a href="#">recipient</a>	<b>derived by:</b> <b>xs:string</b>				documentation An attribute that specifies a recipient of content in e-textbook.
Name	Type	Use	Default	Fixed	Annotation														
<a href="#">content-status</a>	<b>derived by:</b> <b>xs:string</b>				documentation An attribute that specifies type of content in e-textbook.														
<a href="#">recipient</a>	<b>derived by:</b> <b>xs:string</b>				documentation An attribute that specifies a recipient of content in e-textbook.														
source	<pre> &lt;xs:attributeGroup name="group-attr-status-and-recipient"&gt;   &lt;xs:attribute name="content-status" form="qualified"&gt;     &lt;xs:annotation&gt;       &lt;xs:documentation&gt;An attribute that specifies type of content in e-       textbook.&lt;/xs:documentation&gt;     &lt;/xs:annotation&gt;     &lt;xs:simpleType&gt;       &lt;xs:restriction base="xs:string"&gt;         &lt;xs:enumeration value="canon"&gt;           &lt;xs:annotation&gt;             &lt;xs:documentation&gt;It declares content that needs to be included.&lt;/xs:documentation&gt;           &lt;/xs:annotation&gt;         &lt;/xs:enumeration&gt;         &lt;xs:enumeration value="expanding"&gt; </pre>																		

	<pre> &lt;xs:annotation&gt;   &lt;xs:documentation&gt;It declares expanding content that are optional and covering more than   canon.&lt;/xs:documentation&gt; &lt;/xs:annotation&gt; &lt;/xs:enumeration&gt; &lt;xs:enumeration value="supplemental"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;It declares supplemental content that are mainly for recipients with     disabilities.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt; &lt;/xs:enumeration&gt; &lt;/xs:restriction&gt; &lt;/xs:simpleType&gt; &lt;/xs:attribute&gt; &lt;xs:attribute name="recipient" form="qualified"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;An attribute that specifies a recipient of content in e-     textbook.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt;   &lt;xs:simpleType&gt;     &lt;xs:restriction base="xs:string"&gt;       &lt;xs:enumeration value="student"&gt;         &lt;xs:annotation&gt;           &lt;xs:documentation&gt;It declares that content are ordinary.&lt;/xs:documentation&gt;         &lt;/xs:annotation&gt;       &lt;/xs:enumeration&gt;       &lt;xs:enumeration value="teacher"&gt;         &lt;xs:annotation&gt;           &lt;xs:documentation&gt;It declares that content are teacher-oriented.&lt;/xs:documentation&gt;         &lt;/xs:annotation&gt;       &lt;/xs:enumeration&gt;     &lt;/xs:restriction&gt;   &lt;/xs:simpleType&gt; &lt;/xs:attribute&gt; &lt;/xs:attributeGroup&gt; </pre>
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**attribute group-attr-status-and-recipient/@content-status**

namespace	http://epodreczniki.pl/												
type	restriction of <b>xs:string</b>												
properties	form qualified												
facets	<table border="1"> <thead> <tr> <th>Kind</th> <th>Value</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td>enumeration</td> <td>canon</td> <td>documentation It declares content that needs to be included.</td> </tr> <tr> <td>enumeration</td> <td>expanding</td> <td>documentation It declares expanding content that are optional and covering more than canon.</td> </tr> <tr> <td>enumeration</td> <td>supplemental</td> <td>documentation It declares supplemental content that are mainly for recipients with disabilities.</td> </tr> </tbody> </table>	Kind	Value	Annotation	enumeration	canon	documentation It declares content that needs to be included.	enumeration	expanding	documentation It declares expanding content that are optional and covering more than canon.	enumeration	supplemental	documentation It declares supplemental content that are mainly for recipients with disabilities.
Kind	Value	Annotation											
enumeration	canon	documentation It declares content that needs to be included.											
enumeration	expanding	documentation It declares expanding content that are optional and covering more than canon.											
enumeration	supplemental	documentation It declares supplemental content that are mainly for recipients with disabilities.											
annotation	documentation An attribute that specifies type of content in e-textbook.												
source	<pre> &lt;xs:attribute name="content-status" form="qualified"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;An attribute that specifies type of content in e-textbook.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt; &lt;/xs:simpleType&gt; </pre>												

	<pre> &lt;xs:restriction base="xs:string"&gt;   &lt;xs:enumeration value="canon"&gt;     &lt;xs:annotation&gt;       &lt;xs:documentation&gt;It declares content that needs to be included.&lt;/xs:documentation&gt;     &lt;/xs:annotation&gt;   &lt;/xs:enumeration&gt;   &lt;xs:enumeration value="expanding"&gt;     &lt;xs:annotation&gt;       &lt;xs:documentation&gt;It declares expanding content that are optional and covering more than canon.&lt;/xs:documentation&gt;     &lt;/xs:annotation&gt;   &lt;/xs:enumeration&gt;   &lt;xs:enumeration value="supplemental"&gt;     &lt;xs:annotation&gt;       &lt;xs:documentation&gt;It declares supplemental content that are mainly for recipients with disabilities.&lt;/xs:documentation&gt;     &lt;/xs:annotation&gt;   &lt;/xs:enumeration&gt; &lt;/xs:restriction&gt; &lt;/xs:simpleType&gt; &lt;/xs:attribute&gt; </pre>
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**attribute group-attr-status-and-recipient/@recipient**

namespace	http://epodreczniki.pl/		
type	restriction of <b>xs:string</b>		
properties	form qualified		
facets	Kind	Value	Annotation
	enumeration	student	documentation It declares that content are ordinary.
	enumeration	teacher	documentation It declares that content are teacher-oriented.
annotation	documentation An attribute that specifies a recipient of content in e-textbook.		
source	<pre> &lt;xs:attribute name="recipient" form="qualified"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;An attribute that specifies a recipient of content in e- textbook.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt;   &lt;xs:simpleType&gt;     &lt;xs:restriction base="xs:string"&gt;       &lt;xs:enumeration value="student"&gt;         &lt;xs:annotation&gt;           &lt;xs:documentation&gt;It declares that content are ordinary.&lt;/xs:documentation&gt;         &lt;/xs:annotation&gt;       &lt;/xs:enumeration&gt;       &lt;xs:enumeration value="teacher"&gt;         &lt;xs:annotation&gt;           &lt;xs:documentation&gt;It declares that content are teacher-oriented.&lt;/xs:documentation&gt;         &lt;/xs:annotation&gt;       &lt;/xs:enumeration&gt;     &lt;/xs:restriction&gt;   &lt;/xs:simpleType&gt; &lt;/xs:attribute&gt; </pre>		

### attribute version-at-this-collection-version

namespace	http://cnx.rice.edu/system-info
type	<b>xs:string</b>
used by	element <a href="#">module</a>
annotation	documentation An attribute that specifies the version of the module that is used in the version of the collection expressed by the containing CollXML 'collection'. If the collection author has selected a particular version of the module to be used in this collection version, then the value will be that version number; if the collection author has chosen to use the 'latest' version of the module in this collection version, then the value will be the particular version of the module that was the latest version when this collection version was published.
source	<pre>&lt;xs:attribute name="version-at-this-collection-version" type="xs:string"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;An attribute that specifies the version of the module that is used in the     version of the collection expressed by the containing CollXML 'collection'. If the collection author     has selected a particular version of the module to be used in this collection version, then the value     will be that version number; if the collection author has chosen to use the 'latest' version of the     module in this collection version, then the value will be the particular version of the module that was     the latest version when this collection version was published.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt; &lt;/xs:attribute&gt;</pre>

### complexType type-elem-string-attr-key

diagram													
namespace	http://cnx.rice.edu/mdml												
type	extension of <b>xs:string</b>												
properties	base <b>xs:string</b>												
used by	element <a href="#">education-levellist/education-level</a>												
attributes	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td><a href="#">key</a></td> <td><b>xs:string</b></td> <td></td> <td></td> <td></td> <td>documentation A coded representation of an element of the object.</td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	<a href="#">key</a>	<b>xs:string</b>				documentation A coded representation of an element of the object.
Name	Type	Use	Default	Fixed	Annotation								
<a href="#">key</a>	<b>xs:string</b>				documentation A coded representation of an element of the object.								
source	<pre>&lt;xs:complexType name="type-elem-string-attr-key"&gt;   &lt;xs:simpleContent&gt;     &lt;xs:extension base="xs:string"&gt;       &lt;xs:attribute name="key" type="xs:string"&gt;         &lt;xs:annotation&gt;           &lt;xs:documentation&gt;A coded representation of an element of the object.&lt;/xs:documentation&gt;         &lt;/xs:annotation&gt;       &lt;/xs:attribute&gt;     &lt;/xs:extension&gt;   &lt;/xs:simpleContent&gt; &lt;/xs:complexType&gt;</pre>												

attribute **type-elem-string-attr-key/@key**

type	<b>xs:string</b>
annotation	documentation A coded representation of an element of the object.
source	<pre>&lt;xs:attribute name="key" type="xs:string"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;A coded representation of an element of the object.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt; &lt;/xs:attribute&gt;</pre>

complexType **type-elem-string-attr-key-qualified**

diagram													
namespace	http://cnx.rice.edu/mdml												
type	extension of <b>xs:string</b>												
properties	base xs:string												
attributes	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>Annotation documentation</th> </tr> </thead> <tbody> <tr> <td><a href="#">key</a></td> <td><b>xs:string</b></td> <td></td> <td></td> <td></td> <td>A coded representation of an element of the object.</td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation documentation	<a href="#">key</a>	<b>xs:string</b>				A coded representation of an element of the object.
Name	Type	Use	Default	Fixed	Annotation documentation								
<a href="#">key</a>	<b>xs:string</b>				A coded representation of an element of the object.								
source	<pre>&lt;xs:complexType name="type-elem-string-attr-key-qualified"&gt;   &lt;xs:simpleContent&gt;     &lt;xs:extension base="xs:string"&gt;       &lt;xs:attribute name="key" type="xs:string" form="qualified"&gt;         &lt;xs:annotation&gt;           &lt;xs:documentation&gt;A coded representation of an element of the object.&lt;/xs:documentation&gt;         &lt;/xs:annotation&gt;       &lt;/xs:attribute&gt;     &lt;/xs:extension&gt;   &lt;/xs:simpleContent&gt; &lt;/xs:complexType&gt;</pre>												

attribute **type-elem-string-attr-key-qualified/@key**

namespace	http://cnx.rice.edu/mdml
type	<b>xs:string</b>
properties	form qualified
annotation	documentation A coded representation of an element of the object.
source	<pre>&lt;xs:attribute name="key" type="xs:string" form="qualified"&gt;   &lt;xs:annotation&gt;</pre>

	<pre> &lt;xs:documentation&gt;A coded representation of an element of the object.&lt;/xs:documentation&gt; &lt;/xs:annotation&gt; &lt;/xs:attribute&gt; </pre>
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### simpleType **type-not-empty-positive-integer**

namespace	http://cnx.rice.edu/mdml						
type	restriction of <b>xs:positiveInteger</b>						
properties	base xs:positiveInteger						
facets	<table border="1"> <thead> <tr> <th>Kind</th> <th>Value</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td>pattern</td> <td>[0-9]+</td> <td></td> </tr> </tbody> </table>	Kind	Value	Annotation	pattern	[0-9]+	
Kind	Value	Annotation					
pattern	[0-9]+						
source	<pre> &lt;xs:simpleType name="type-not-empty-positive-integer"&gt;   &lt;xs:restriction base="xs:positiveInteger"&gt;     &lt;xs:pattern value="[0-9]+"\/&gt;   &lt;/xs:restriction&gt; &lt;/xs:simpleType&gt; </pre>						

### simpleType **type-not-empty-string**

namespace	http://cnx.rice.edu/mdml						
type	restriction of <b>xs:string</b>						
properties	base xs:string						
facets	<table border="1"> <thead> <tr> <th>Kind</th> <th>Value</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td>pattern</td> <td>.+</td> <td></td> </tr> </tbody> </table>	Kind	Value	Annotation	pattern	.+	
Kind	Value	Annotation					
pattern	.+						
source	<pre> &lt;xs:simpleType name="type-not-empty-string"&gt;   &lt;xs:restriction base="xs:string"&gt;     &lt;xs:pattern value=".+"\/&gt;   &lt;/xs:restriction&gt; &lt;/xs:simpleType&gt; </pre>						

### simpleType **type-string-min-lenght-one**

namespace	http://cnx.rice.edu/mdml						
type	restriction of <b>xs:string</b>						
properties	base xs:string						
facets	<table border="1"> <thead> <tr> <th>Kind</th> <th>Value</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td>minLength</td> <td>1</td> <td></td> </tr> </tbody> </table>	Kind	Value	Annotation	minLength	1	
Kind	Value	Annotation					
minLength	1						
source	<pre> &lt;xs:simpleType name="type-string-min-lenght-one"&gt;   &lt;xs:restriction base="xs:string"&gt;     &lt;xs:minLength value="1"/&gt;   &lt;/xs:restriction&gt; &lt;/xs:simpleType&gt; </pre>						

### simpleType **type-string-skip-include**

namespace	http://cnx.rice.edu/mdml
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type	restriction of <b>xs:string</b>									
properties	base xs:string									
facets	<table border="1"> <thead> <tr> <th>Kind</th> <th>Value</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td>enumeration</td> <td>skip</td> <td></td> </tr> <tr> <td>enumeration</td> <td>include</td> <td></td> </tr> </tbody> </table>	Kind	Value	Annotation	enumeration	skip		enumeration	include	
Kind	Value	Annotation								
enumeration	skip									
enumeration	include									
source	<pre>&lt;xs:simpleType name="type-string-skip-include"&gt;   &lt;xs:restriction base="xs:string"&gt;     &lt;xs:enumeration value="skip"/&gt;     &lt;xs:enumeration value="include"/&gt;   &lt;/xs:restriction&gt; &lt;/xs:simpleType&gt;</pre>									

### complexType type-elem-string-attr-key

diagram													
namespace	http://epodreczniki.pl/												
type	extension of <b>xs:string</b>												
properties	base xs:string												
attributes	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td><a href="#">key</a></td> <td><b>xs:string</b></td> <td></td> <td></td> <td></td> <td>documentation A coded representation of an element of the object.</td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	<a href="#">key</a>	<b>xs:string</b>				documentation A coded representation of an element of the object.
Name	Type	Use	Default	Fixed	Annotation								
<a href="#">key</a>	<b>xs:string</b>				documentation A coded representation of an element of the object.								
source	<pre>&lt;xs:complexType name="type-elem-string-attr-key"&gt;   &lt;xs:simpleContent&gt;     &lt;xs:extension base="xs:string"&gt;       &lt;xs:attribute name="key" type="xs:string"&gt;         &lt;xs:annotation&gt;           &lt;xs:documentation&gt;A coded representation of an element of the object.&lt;/xs:documentation&gt;         &lt;/xs:annotation&gt;       &lt;/xs:attribute&gt;     &lt;/xs:extension&gt;   &lt;/xs:simpleContent&gt; &lt;/xs:complexType&gt;</pre>												

### attribute type-elem-string-attr-key/@key

type	<b>xs:string</b>
annotation	documentation A coded representation of an element of the object.
source	<pre>&lt;xs:attribute name="key" type="xs:string"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;A coded representation of an element of the object.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt;</pre>

	<code>&lt;/xs:attribute&gt;</code>
--	------------------------------------

### complexType **type-elem-string-attr-key-qualified**

diagram						
namespace	http://epodreczniki.pl/					
type	extension of <b>xs:string</b>					
properties	base <b>xs:string</b>					
used by	elements <a href="#">learning-objectives/learning-objective/learning-objective-name</a> <a href="#">learning-objectives/learning-objective/learning-objective-school</a> <a href="#">learning-objectives/learning-objective/learning-objective-scope</a> <a href="#">learning-objectives/learning-objective/learning-objective-stage</a> <a href="#">learning-objectives/learning-objective/learning-objective-subject</a> <a href="#">learning-objectives/learning-objective/learning-objective-version</a>					
attributes	Name	Type	Use	Default	Fixed	Annotation
	<a href="#">key</a>	<b>xs:string</b>				documentation A coded representation of an element of the object.
source	<pre> &lt;xs:complexType name="type-elem-string-attr-key-qualified"&gt;   &lt;xs:simpleContent&gt;     &lt;xs:extension base="xs:string"&gt;       &lt;xs:attribute name="key" type="xs:string" form="qualified"&gt;         &lt;xs:annotation&gt;           &lt;xs:documentation&gt;A coded representation of an element of the object.&lt;/xs:documentation&gt;         &lt;/xs:annotation&gt;       &lt;/xs:attribute&gt;     &lt;/xs:extension&gt;   &lt;/xs:simpleContent&gt; &lt;/xs:complexType&gt; </pre>					

### attribute **type-elem-string-attr-key-qualified/@key**

namespace	http://epodreczniki.pl/
type	<b>xs:string</b>
properties	form <b>qualified</b>
annotation	documentation A coded representation of an element of the object.
source	<pre> &lt;xs:attribute name="key" type="xs:string" form="qualified"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;A coded representation of an element of the object.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt; &lt;/xs:attribute&gt; </pre>

### simpleType **type-not-empty-positive-integer**

namespace	http://epodreczniki.pl/
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type	restriction of <b>xs:positiveInteger</b>						
properties	base <a href="#">xs:positiveInteger</a>						
used by	element <a href="#">e-textbook/volume</a>						
facets	<table border="1"> <thead> <tr> <th>Kind</th> <th>Value</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td>pattern</td> <td>[0-9]+</td> <td></td> </tr> </tbody> </table>	Kind	Value	Annotation	pattern	[0-9]+	
Kind	Value	Annotation					
pattern	[0-9]+						
source	<pre>&lt;xs:simpleType name="type-not-empty-positive-integer"&gt;   &lt;xs:restriction base="xs:positiveInteger"&gt;     &lt;xs:pattern value="[0-9]+"/&gt;   &lt;/xs:restriction&gt; &lt;/xs:simpleType&gt;</pre>						

### simpleType **type-not-empty-string**

namespace	<a href="http://epodreczniki.pl/">http://epodreczniki.pl/</a>						
type	restriction of <b>xs:string</b>						
properties	base <a href="#">xs:string</a>						
used by	attributes <a href="#">id type-link-reference/link/@module-id type-link-reference/link/@toc-id</a>						
facets	<table border="1"> <thead> <tr> <th>Kind</th> <th>Value</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td>pattern</td> <td>.+</td> <td></td> </tr> </tbody> </table>	Kind	Value	Annotation	pattern	.+	
Kind	Value	Annotation					
pattern	.+						
source	<pre>&lt;xs:simpleType name="type-not-empty-string"&gt;   &lt;xs:restriction base="xs:string"&gt;     &lt;xs:pattern value=".+"/&gt;   &lt;/xs:restriction&gt; &lt;/xs:simpleType&gt;</pre>						

### simpleType **type-string-min-lenght-one**

namespace	<a href="http://epodreczniki.pl/">http://epodreczniki.pl/</a>						
type	restriction of <b>xs:string</b>						
properties	base <a href="#">xs:string</a>						
used by	elements <a href="#">e-textbook/class e-textbook/environment-type e-textbook/stylesheet</a>						
facets	<table border="1"> <thead> <tr> <th>Kind</th> <th>Value</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td>minLength</td> <td>1</td> <td></td> </tr> </tbody> </table>	Kind	Value	Annotation	minLength	1	
Kind	Value	Annotation					
minLength	1						
source	<pre>&lt;xs:simpleType name="type-string-min-lenght-one"&gt;   &lt;xs:restriction base="xs:string"&gt;     &lt;xs:minLength value="1"/&gt;   &lt;/xs:restriction&gt; &lt;/xs:simpleType&gt;</pre>						

### simpleType **type-string-skip-include**

namespace	<a href="http://epodreczniki.pl/">http://epodreczniki.pl/</a>
type	restriction of <b>xs:string</b>
properties	base <a href="#">xs:string</a>
used by	attributes <a href="#">numbering toc</a>

facets	<table border="1"><thead><tr><th data-bbox="306 195 446 216">Kind</th><th data-bbox="446 195 548 216">Value</th><th data-bbox="548 195 660 216">Annotation</th></tr></thead><tbody><tr><td data-bbox="306 216 446 247">enumeration</td><td data-bbox="446 216 548 247">skip</td><td data-bbox="548 216 660 247"></td></tr><tr><td data-bbox="306 247 446 279">enumeration</td><td data-bbox="446 247 548 279">include</td><td data-bbox="548 247 660 279"></td></tr></tbody></table>	Kind	Value	Annotation	enumeration	skip		enumeration	include	
Kind	Value	Annotation								
enumeration	skip									
enumeration	include									
source	<pre data-bbox="293 304 878 485">&lt;xs:simpleType name="type-string-skip-include"&gt;   &lt;xs:restriction base="xs:string"&gt;     &lt;xs:enumeration value="skip"/&gt;     &lt;xs:enumeration value="include"/&gt;   &lt;/xs:restriction&gt; &lt;/xs:simpleType&gt;</pre>									