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Massey Universit

#### XML: Schema Definition Language

## Assignment Project Exam Help • Well-formed XML: adheres to basic structural requirements.

- Vali

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#### Two Sche

- Document Type Definition (DTD)
  XMLACTO De Wie Shat edu\_assist\_pressure of the present the presen

#### XML: Schema Definition, Schema, and Instance Document

# Assignment Project Exam Help is developed and maintained by W3C, and is designed to define a bro

- https://eduassistpro.github.
- Instante Document the codiment to be clida assist\_prescribed assist.

#### XML Schema and DTD

## Assignment Project Exam Help

Documen Standard https://eduassistpro.gitnub.
Supporte
Mixed content
Namespace
Entities
Supported resid global typed keys hat edu\_assist\_pro.gitnub.

#### XML: Namespace

- Purpose: to avoid duplicated tag names in merging XML files.
- Method: prepend each tag with a Unique Resource Identifier (URI).

### Assignment Project Exam Help

An instance document with namespace:

```
<xsi:Bo</pre>
  *** https://eduassistpro.github.
       <xsi:Author>
         dd fill we differ edu_assist_pr
       </xsi:Author>
       <xsi:Author>
          <xsi:First_Name>Jennifer</xsi:First_Name>
          <xsi:Last_Name>Widom</xsi:Last_Name>
       </xsi:Author>
     </xsi:Authors>
  </xsi:Book>
```

#### XSD: Start a Schema File

- Assignment Project Exam, is assigned to the XML Schema namespace to identify elements and attributes tha
  - The https://eduassistpro.github.

```
<?xml ver
<xsd:schema xmlns:xsd="http://www
content dd WeChat edu_assist_pr
</xsd:schema>
```

See docuhttps://eduassistpro.github.

- Sim • attr • https://eduassistpro.github.
  - Co Mups.//eduassistpro.gimub attributes.

#### XSD: Define a Simple Type Element

Define a simple type element:

```
Assignment Project Exam Help
 <Last Name>Ullman</Last Name>
```

# Commo https://eduassistpro.github.

- xsd:decimal
- xsd:in WeChat edu\_assist\_pr
- xsd:boolean
- xsd:date
- xsd:time

Their instances are all texts.

https://eduassistpro.github.

#### XSD: Define a Complex Type

Define a complex type called BookType:

</xs:complexType>

</xs:element>

```
Assistant Project Exam Help
```

Define a https://eduassistpro.github.

11

#### Content

- : Att https://eduassistpro.github.
- Nested child element

#### Content

- : Att https://eduassistpro.github.
- Nested child element

#### XSD: Define an Attribute

## Assignment Project Exam Help

```
<xsd:at
```

Define arhttps://eduassistpro.github.

```
<Book ISBN="ISBN-0-13-713526-2" Pri</pre>
```

</Book>Add WeChat edu\_assist\_pr

#### XSD: Attribute Use Indicators

Assignment Project Exam Help
Use is one of the following three values:

- req
- opti https://eduassistpro.github.
- prohibited: the attribute cannot be used with the

### Example: Add WeChat edu\_assist\_pr

<xsd:attribute name="ISBN" type="xsd:string" use="optional"/>
See documents "Bookstore.xsd" and "Bookstore-XSD.xml".

#### XSD: Contents of a Complex Type

Contents of a complex type:

#### Assignment Project Exam Help Basic text

Nes

## A comple https://eduassistpro.github.

- Empty element: contain only attributes.
- BasicActddttWeeChat edu\_assist\_pr
- Nested child elements
- Nested child elements + attributes
- Mixed: Nested child elements + attributes + basic text

#### XSD: Contents of a Complex Type

Contents of a complex type:

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- Nested child elements + attributes
- Mixed: Nested child elements + attributes + basic text

#### XSD: Define a Empty Element

Define an instance of Book:

<Book ISBN="ISBN-0-13-713526-2" Price="85" Edition="3rd"/>

#### XSD: Contents of a Complex Type

Contents of a complex type:

#### Assignment Project Exam Help Basic text

Nes

## A comple https://eduassistpro.github.

- Empty element: contain only attributes.
- Basic And dtt We Chat edu\_assist\_pr
- Nested child elements
- Nested child elements + attributes
- Mixed: Nested child elements + attributes + basic text

#### XSD: Define an Basic Text with Attributes

```
Define an element of Book:
```

```
<xsd:element name="Book">
```

# Assignment Project Exam Help <a href="mailto:complexType"><a href="mailto:

```
https://eduassistpro.github/
```

```
</xs:simpleContent>
</xsdAcenderTweeChat edu_assist_pr
</pre>
```

Define an instance of Book:

```
<Book ISBN="ISBN-0-13-713526-2" Price="85" Edition="3rd">
```

A First Course in Database Systems

</Book>

#### XSD: Contents of a Complex Type

Contents of a complex type:

#### Assignment Project Exam Help Basic text

Nes

## A comple https://eduassistpro.github.

- Empty element: contain only attributes.
- Basic Act dtt We Chat edu\_assist\_pr
- Nested child elements + attributes
- Mixed: Nested child elements + attributes + basic text

#### XSD:Define an Element with Nested Child Elements

Define an element of Author:

```
Assignment Project Exam Help
```

https://eduassistpro.github.

</xs:element>

Define an instance of Author: Chat edu\_assist\_pr

```
<Author>
   <First_Name>Jeffrey</First_Name>
   <Last_Name>Ullman</Last_Name>
</Author>
```

#### XSD: Order Indicators for Nested Child Elements

Order indicators: to specify the order of the appearances of the child elements.

### As the dephilogenests and the extending element must occur only once.

- Cho
- \* Seq https://eduassistpro.github.

```
<xsd:complexType>
```

\*Add: Chat edu\_assist\_pr <xsd:element name="Last</pre>

</xsd:choice> </xsd:complexType>

</xs:element>

See documents "Bookstore.xsd" and "Bookstore-XSD.xml".

#### XSD: Occurrence Indicators for Nested Child Elements

Occurrence indicator: to define how often an element can occur.

## Axsisignment Project Exam Help

https://eduassistpro.github.

```
</xsd:complexType>
```

</xsd:el/Ared d WeChat edu\_assist\_pr</p>

The default value for both maxOccurs and minOccur i

See documents "Bookstore.xsd" and "Bookstore-XSD.xml".

#### XSD: Contents of a Complex Type

Contents of a complex type:

#### Assignment Project Exam Help Basic text

Nes

## A comple https://eduassistpro.github.

- Empty element: contain only attributes.
- BasicActddttWeeChat edu\_assist\_pr
- Nested child elements
- Nested child elements + attributes
- Mixed: Nested child elements + attributes + basic text

#### XSD: Define an Element with Child Elements + Attributes

Define an element "Book" with both child elements and attributes:

```
Assignment Project Exam Help

(xsd:element name="Book" type="BookType"

minOccurs="0" maxOccurs="unbounded" />

Assignment Project Exam Help

(xsd:element name="Title" type="xsd:string" />

(xsd:element name="Authors">
```

### https://eduassistpro.github.

See documents "Bookstore.xsd" and "Bookstore-XSD.xml" for an instance.

</xsd:complexType>

</r></xsd:element>

#### XSD: Contents of a Complex Type

Contents of a complex type:

#### Assignment Project Exam Help Basic text

Nes

## A comple https://eduassistpro.github.

- Empty element: contain only attributes.
- BasicActddttWeeChat edu\_assist\_pr
- Nested child elements
- Nested child elements + attributes
- Mixed: Nested child elements + attributes + basic text

#### XSD: Define a Mixed Element

Define a mixed element by setting its complextype attribute mixed="true".

An instance of letter:

```
<letter shipdate="2001-07-13">
  Dear Mr.<name>John Smith</name>.
  Your order <orderid>1032</orderid>
</letter>
26
```

#### XSD: Keys and Foreign Keys

Specify an attribute (ISBN) of an element (Book) is a key:

```
<xsd:key name="BookKey">
```

```
Assignment Broject Exam Help </ri>
```

https://eduassistpro.github.

#### XSD: Keys and Foreign Keys

Specify an attribute (ISBN) of an element (Book) is a key:

```
<xsd:key name="BookKey">
```

```
Assignment Broject Exam Help
```

```
Specify an https://eduassistpro.github.
```

foreign key of key "BookKey" defined above:

#### XSD: Keys and Foreign Keys

Specify an attribute (ISBN) of an element (Book) is a key:

```
<xsd:key name="BookKey">
```

```
Assignment Broject Exam Help
```

### Specify an https://eduassistpro.github.

foreign key of key "BookKey" defined above:

```
<xsd:keyAef daile=WorkKeyRef "areferedu_assist_proferedused:field xpath="@book" />
```

</xsd:keyref>

See documents "Bookstore-key.xsd" and "Bookstore-XSD-key.xml".

https://www.w3schools.com/xml/schema intro.asp

- W3 https://eduassistpro.github.
- Chapter 10, "Database System Concepts (Fif Silber Charle H. Worth S. Fudarshare du\_assist\_production to Databases, Stanford Univers