# Internet Technology and Applications Practicals Assignment 2

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1.

# emails.xml:

# emails.dtd:

```
<!ELEMENT emails (email+)>
<!ELEMENT email (to,from,heading,body)>
<!ELEMENT to (#PCDATA)>
<!ELEMENT from (#PCDATA)>
<!ELEMENT heading (#PCDATA)>
<!ELEMENT body (#PCDATA)>
```

## emails.xsd:

#### bookstore.xml:

```
(?xml version="1.0" encoding="UTF-8"?>
Sbookstore xmlns="http://www.w3schools.com/" xmlns:xsi="http://www.w3.org/2001/XMLSchema"
xsi:schemaLocation="http://www.w3schools.com bookstore.xsd">
  <book category="COOKING" id="b1">
      <title lang="en">Everyday Italian</title>
      <author>Giada De Laurentiis
      <year>2005
      <price>30.00</price>
  <book category="CHILDREN" id="b2">
      <title lang="en">Harry Potter</title>
      <author>J K. Rowling</author>
      <year>2005
      <price>29.99</price>
  <book category="WEB" id="b3">
      <title lang="en">Learning XML</title>
      <author>Erik T. Ray</author>
      <year>2003
      <price>39.95</price>
```

### bookstore.dtd:

```
<!ELEMENT bookstore (book+)>
<!ELEMENT book (title,author,year,price) >
<!ELEMENT title (#PCDATA)>
<!ELEMENT author (#PCDATA)>
<!ELEMENT year (#PCDATA)>
<!ELEMENT price (#PCDATA)>
<!ATTLIST book category (CHILDREN|WEB|COOKING) "GENERAL">
<!ATTLIST book id ID #IMPLIED >
<!ATTLIST title lang (hi|en|sa|gu|ma) "en">
```

### bookstore.xsd:

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

<xs:schema targetNamespace="http://www.w3schools.com/" elementFormDefault="qualified"

xmlns="http://www.w3schools.com bookstore.xsd"

xmlns:xs="http://www.w3.org/2001/XMLSchema">
```

```
<xs:element name="bookstore">
       <xs:complexType>
                           <xs:element name="title">
                                   <xs:attribute name="lang" type="xs:language"</pre>
default="en"></xs:attribute>
                           <xs:element name="author">
                                   <xs:restriction base="xs:string">
                                       <xs:pattern value="[A-Z][a-zA-Z]*"></xs:pattern>
                           </xs:element>
                                   <xs:restriction base="xs:integer">
                                       <xs:minInclusive value="1900"></xs:minInclusive>
                                       <xs:maxInclusive value="2021"></xs:maxInclusive>
                           <xs:element name="price" type="xs:decimal" />
                       </xs:sequence>
                       <xs:attribute name="id" type="xs:ID" use="required" />
                               <xs:restriction base="xs:string">
                                   <xs:enumeration value="WEB" />
                                   <xs:enumeration value="COOKING" />
                                   <xs:enumeration value="GENERAL" />
                       </xs:attribute>
               </xs:element>
           </xs:sequence>
```

</xs:element>

</xs:schema>