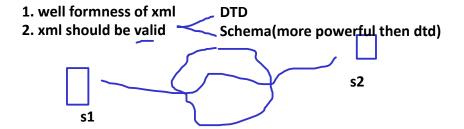


parser? and check well formess of xml

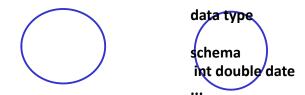


<u>Sch</u>ema: is a tech for validation of xml it is more powreful then dtd

w3c org maintain the draft of many tech

- 1. it support rich data type
- 2. it also support namespace concept

hello world of schema file



```
<?xml version="1.0" encoding="UTF-8"?>
<schema xmlns="http://www.w3.org/2001/XMLSchema"
   targetNamespace="http://www.ivy.com/employees"
   xmlns:tns="http://www.ivy.com/employees" elementFormDefault="qualified">
 <element name="employees" type="tns:employeesType"></element>
  <complexType name="employeesType">
   <sequence>
       <element name="companyName" type="string" maxOccurs="1"
           minOccurs="1">
       </element>
       <element name="employee" type="tns:employeeType" maxOccurs="unbounded" minOccurs="0"></element>
  </sequence>
  </complexType>
  <complexType name="employeeType">
    <sequence>
       <element name="id" type="int"></eiement>
       <element name="name" type="string"></element>
       <element name="address" type="string"></element>
       <element name="dob" type="date"></element>
    </sequence>
 </complexType>
</schema>
                      XML processing:
                                                                                                          this server should
                            DOM: doc object model, curd operation
                                                                                                          process xml
                                u must have all the data in memory..
     continus stream of data
           Event based model SAX: Simple API for XML proceessing, this can be used only for reading purpose CF
                            JAXB
```

```
//Creating elements
        Element rootEle=document.createElement("students");
        Element studentEle=document.createElement("student");
        Element nameEle=document.createElement("name");
                                                                                                                            students
        Element emailEle=document.createElement("email");
        Element mobileEle=document.createElement("mobile");
        Element addressEle=document.createElement("address");
        //Creating text infomration to store
        Text t1=document.createTextNode("raja");
                                                                                                                          student
        Text t2=document.createTextNode("raja@raja.com");
        Text t3=document.createTextNode("434343434");
        Text t4=document.createTextNode("noida");
        nameEle.appendChild(t1);
        emailEle.appendChild(t1);
        mobileEle.appendChild(t1);
                                                                                                                              noEl
        addressEle.appendChild(t1);
        studentEle.appendChild(nameEle);
        studentEle.appendChild(emailEle);
        studentEle.appendChild(mobileEle);
        studentEle.appendChild(addressEle);
        rootEle.appendChild(studentEle);
        document.appendChild(rootEle);
        Transformer t=TransformerFactory.newInstance().newTransformer();
        t.transform(new DOMSource(document), new StreamResult(new FileOutputStream("students.xml")));
        System.out.println("xml file generated...");
                Event handling: ui app
                swing, js form validation
                                                                                                                 orm
                                                                                                                           RDBMS
                                                                                               Object relationsh p
             Web service : DOM
                                                                        ORM: hib
                                                         imp
                 JAXB (Java arch for xml binding)
                                                                                                                XML
                       what it do?
                                                                                       Java
                       is used to convert xml -> java
                       java --> xml
                                                                                   web service internally use it
                       it is a high level api and easy to use and work with annotation
        jaxb api
                                                                                                     .net
                        java-> xml
                   s1
                                                                                                  ς2
```

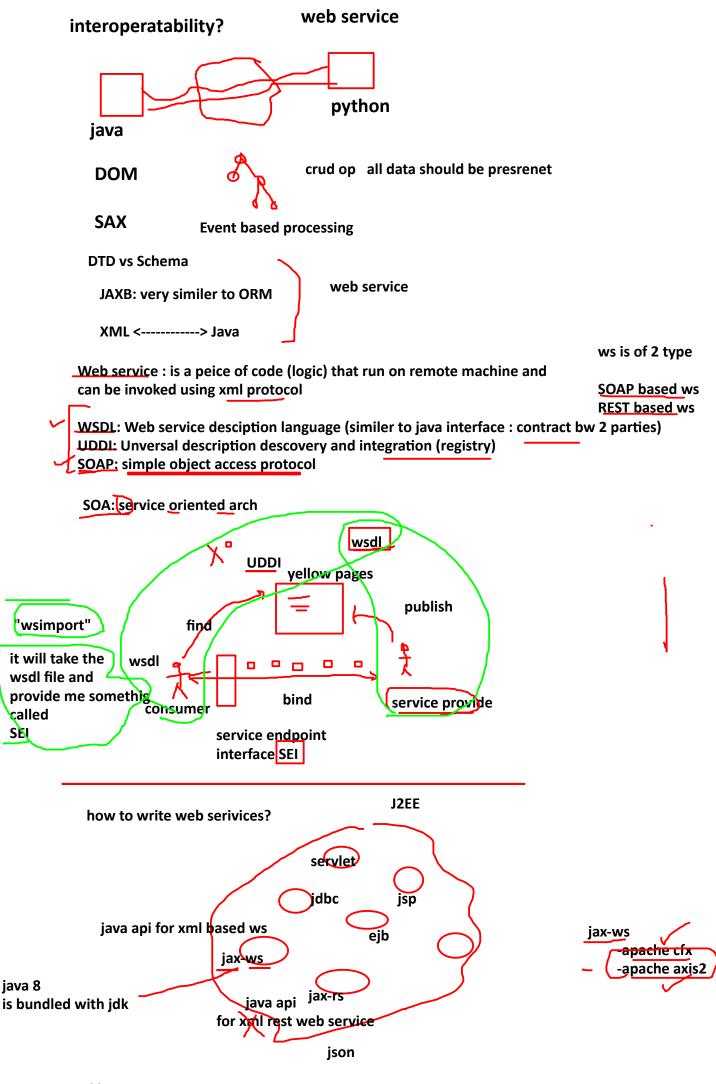
xml

marshiling

xml-> c#

un-marshiling

adEl



hello world of soap web service step? what is good prg practice code-> contract contact --> code code first approach (easy) dao-> daoImpl not very good :) first u write the wsdl if u change ur code => ur wsdl and then show to ur higher is going to change manamgement then client will cry:(once is is ok then u are allowed to change it no matter what. even if code is changing u should not change ur code :(how to write wsdl file with hand ie way people use mixed approached u first get basics wsdl by running hello world and then u customised using anntation <soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:com="http://com/"> <soapenv:Header/> <soapenv:Body> <com:sum> <arg0>?</arg0> <arg1>?</arg1> </com:sum> </soapenv:Body> </soapenv:Envelope>

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
  <ns2:sumResponse xmlns:ns2="http://com/">
   <return>3</return>
  </ns2:sumResponse>
  </S:Body>
  </S:Envelope>
```

