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XSD reuse interview questions and answers

Posted on April 14, 2015 by Arulkumaran Kumaraswamipillai

#1. Reuse by defining a "ComplexType". EmployeeType is reused.

```
<?xml version="1.0" encoding="UTF-8"?>
<xsd:schema xmlns="http://www.w3.org/2001/XMLSch
    xmlns:tns="http://www.myapp.com/Person" xmln
    elementFormDefault="qualified">

    <!-- XML root element -->
    <xsd:element name="CompanyRequest" type="tns

    <xsd:complexType name="CompanyType">
        <xsd:sequence>
            <xsd:element name="PermanentStaff" t
            <xsd:element name="ContractStaff" ty
        </xsd:sequence>
    </xsd:complexType>

    <xsd:complexType name="EmployeeType">
        <xsd:sequence>
            <xsd:element name="firstName" type="
            <xsd:element name="lastName" type="s
```

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```
        </xsd:sequence>
    </xsd:complexType>
</xsd:schema>

```

Once JAXB annotated classes are created

```
public void process() throws XmlMappingException
        CompanyRequest req = new CompanyRequest(

        EmployeeType ps = new EmployeeType();
        ps.setFirstName("Peter");
        ps.setLastName("Smith");


        EmployeeType cs = new EmployeeType();
        cs.setFirstName("John");
        cs.setLastName("Lewis");

        req.setPermanentStaff(ps);
        req.setContractStaff(cs);

        StringResult result = new StringResult()
        marshaler.marshal(req, result);
        System.out.println(result.toString());
}

```

XML output:

```
<?xml version="1.0" encoding="UTF-8" standalone=
<CompanyRequest xmlns="http://www.myapp.com/Pers
   <PermanentStaff>
       <firstName>Peter</firstName>
       <lastName>Smith</lastName>
   </PermanentStaff>
   <ContractStaff>
       <firstName>John</firstName>
       <lastName>Lewis</lastName>
   </ContractStaff>
</CompanyRequest>

```

#2. Inheritance reuse where sub types can define additional elements like “salary”, “contractRate”, etc.

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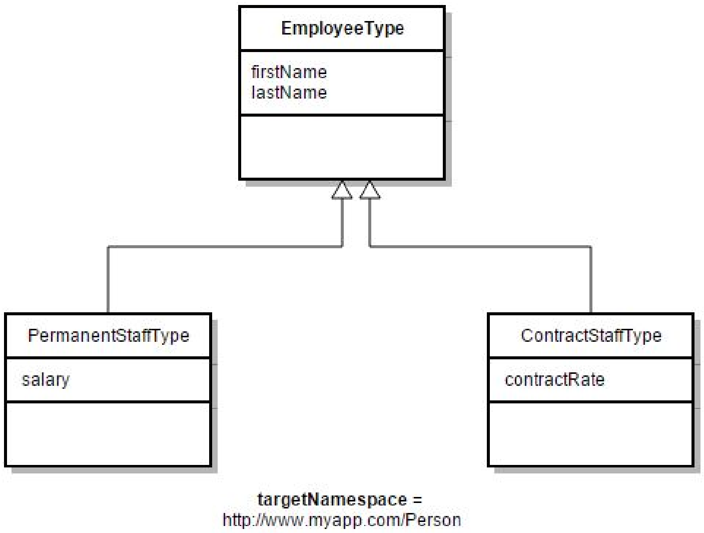

```
<?xml version="1.0" encoding="UTF-8"?>
<xsd:schema xmlns="http://www.w3.org/2001/XMLSch
    xmlns:tns="http://www.myapp.com/Person" xmln
    elementFormDefault="qualified">

    <!-- XML root element -->
    <xsd:element name="CompanyRequest" type="tns

    <xsd:complexType name="CompanyType">
        <xsd:sequence>
            <xsd:element name="PermanentStaff" t
            <xsd:element name="ContractStaff" ty
        </xsd:sequence>
    </xsd:complexType>

    <xsd:complexType name="EmployeeType">
        <xsd:sequence>
            <xsd:element name="firstName" type="
            <xsd:element name="lastName" type="s
        </xsd:sequence>
    </xsd:complexType>


    <xsd:complexType name="PermanentStaffType">
       <xsd:complexContent>
            <xsd:extension base="tns:EmployeeTyp
                <xsd:sequence>
                    <xsd:element name="salary"
                </xsd:sequence>
            </xsd:extension>
       </xsd:complexContent>
    </xsd:complexType>

     <xsd:complexType name="ContractStaffType">
       <xsd:complexContent>
            <xsd:extension base="tns:EmployeeTyp
                <xsd:sequence>
                    <xsd:element name="contract
                </xsd:sequence>
            </xsd:extension>
```

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- What is wrong with th
- Writing Code Home A
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- Written Test JEE (1)

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

</xsd:schema>

```

Once the JAXB annotated classes are created

```
public void process() throws XmlMappingException
        CompanyRequest req = new CompanyRequest(

        PermanentStaffType ps = new PermanentSta
        ps.setFirstName("Peter");
        ps.setLastName("Smith");
        ps.setSalary(300.00);

        ContractStaffType cs = new ContractStaff
        cs.setFirstName("John");
        cs.setLastName("Lewis");
        cs.setContractRate(25.00);

        req.setPermanentStaff(ps);
        req.setContractStaff(cs);

        StringResult result = new StringResult()
        marshaler.marshal(req, result);
        System.out.println(result.toString());
}

```

XML output:

```
<?xml version="1.0" encoding="UTF-8" standalone=
<CompanyRequest xmlns="http://www.myapp.com/Pers
  <PermanentStaff>
     <firstName>Peter</firstName>
     <lastName>Smith</lastName>
     <salary>300.0</salary>
  </PermanentStaff>
  <ContractStaff>
     <firstName>John</firstName>
     <lastName>Lewis</lastName>
     <contractRate>25.0</contractRate>
  </ContractStaff>
</CompanyRequest>

```

#3. using "**substitutionGroup**"

```
<?xml version="1.0" encoding="UTF-8"?>
<xsd:schema xmlns="http://www.w3.org/2001/XMLSch
    xmlns:tns="http://www.myapp.com/Person" xmln
    elementFormDefault="qualified">

    <!-- XML root element -->
    <xsd:element name="CompanyRequest" type="tns
    
    <xsd:element name="Employee" type="tns:Emplo
    <xsd:element name="PermanentStaff" type="tns
    <xsd:element name="ContractStaff" type="tns:
    
    <xsd:complexType name="CompanyType">
        <xsd:sequence>
             <xsd:element ref="tns:Employee"  ma
        </xsd:sequence>
    </xsd:complexType>
    
    <xsd:complexType name="EmployeeType" abstrac
        <xsd:sequence>
            <xsd:element name="firstName" type="
            <xsd:element name="lastName" type="s
        </xsd:sequence>
    </xsd:complexType>
    
    
    <xsd:complexType name="PermanentStaffType">
        <xsd:complexContent>
            <xsd:extension base="tns:EmployeeTyp
                <xsd:sequence>
                    <xsd:element name="salary" t
                </xsd:sequence>
            </xsd:extension>
        </xsd:complexContent>
    </xsd:complexType>
    
    <xsd:complexType name="ContractStaffType">
        <xsd:complexContent>
            <xsd:extension base="tns:EmployeeTyp
                <xsd:sequence>
                    <xsd:element name="contractR
                </xsd:sequence>
            </xsd:extension>
        </xsd:complexContent>
    </xsd:complexType>
    
</xsd:schema>

```

and Java class that make use of the JAXB generated clasess

```
public void process() throws XmlMappingException
        CompanyRequest req = new CompanyRequest(

        PermanentStaffType ps = new PermanentSta
        ps.setFirstName("Peter");
        ps.setLastName("Smith");
        ps.setSalary(300.00);

        ContractStaffType cs = new ContractStaff
        cs.setFirstName("John");
        cs.setLastName("Lewis");
        cs.setContractRate(25.00);

        ObjectFactory of = new ObjectFactory();

        JAXBElement<PermanentStaffType> permStaf
        JAXBElement<ContractStaffType> contractS

        List<JAXBElement<? extends EmployeeType>
        employees.add(permStaff);
        employees.add(contractStaff);

        req.setEmployees(employees);


        StringResult result = new StringResult()
        marshaler.marshal(req, result);
        System.out.println(result.toString());
}

```

XML output:

```
<?xml version="1.0" encoding="UTF-8" standalone=
<CompanyRequest xmlns="http://www.myapp.com/Pers
    <PermanentStaff>
       <firstName>Peter</firstName>
       <lastName>Smith</lastName>
       <salary>300.0</salary>
    </PermanentStaff>
    <ContractStaff>
      <firstName>John</firstName>
      <lastName>Lewis</lastName>
      <contractRate>25.0</contractRate>
    </ContractStaff>
</CompanyRequest>

```

Q. How did we generate the JAXB annotated classes?

A. Refer to Basic JAXB tutorial with Maven & XSD – 1

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Arulkumaran Kumaraswamipillai

Mechanical Eng to freelance Java developer in 3 yrs. Contracting since 2003, and attended 150+ Java job interviews, and often got 4 - 7 job offers to choose from. It pays to prepare. So, published Java interview Q&A books via Amazon.com in 2005, and sold 35,000+ copies. Books are outdated and replaced with this subscription based site.**945+** paid members. join my LinkedIn Group. **Reviews**

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