

Assignment-6

Contents:

- My zip folder consists of 4 things:
 1. Folder named "Code".
 2. Video of the deployment of clinicapp.ear on ec2 instance.
 3. WSDL XML document generated as the output of the project.
 4. ClinicApp.ear file.

Testing Operations:

- Created 4 patients: Ishan Pandya, John Doe, Mitul Shah, Malav Patel.
- Created 2 providers: Rohan Mehta, Dilip Mehta.
- Treatment added: Drug-Treatment, Surgery, Radiology.
- All this testing operations are included in InitBean class of ClinicInit project.
- Also, this time I generated DTO classes from JAXB XML schema file named patient.xsd.
- I was supposed to generate provider.xsd and treatment.xsd to generate providerDto and treatmentDto classes.
- But instead what I did is added them as an element in patient.xsd only as shown in demo podcasts.
- These generated the dto classes required for the project.
- Below is the XML code I wrote:

```
<element name="treatment-dto">
  <complexType>
    <sequence>
      <element name="id" type="Long"/>
      <element name="diagnosis" type="string"/>
      <element name="patient" type="Long"/>
      <element name="provider" type="Long"/>
      <!-- Use choice element to add treatment-specific
information -->
      <!-- Define complex types for treatment types below. -->
      <choice>
        <element name="drug-treatment"
          type="tns:DrugTreatmentType" />
        <element name="radiology" type="tns:RadiologyType" />
        <element name="surgery" type="tns:SurgeryType" />
      </choice>
    </sequence>
  </complexType>
</element>
```

```

</element>

<complexType name="SurgeryType">
  <sequence>
    <element name="date" type="date"/>
  </sequence>
</complexType>
<complexType name="RadiologyType">
  <sequence>
    <element maxOccurs="unbounded" name="date" type="date"/>
  </sequence>
</complexType>
<complexType name="DrugTreatmentType">
  <sequence>
    <element name="name" type="string"/>
    <element name="dosage" type="float"/>
  </sequence>
</complexType>

<element name="provider-dto">
  <complexType>
    <sequence>
      <element name="id" type="long" />
      <element name="name" type="string" />
      <element name="npi" type="long" />
      <element name="specialization" type="string" />
      <element name="treatments" type="long" nillable="true"
        minOccurs="0" maxOccurs="unbounded" />
    </sequence>
  </complexType>
</element>
</schema>

```

WSDL working:

- Now in this assignment clinicService and clinicSoapWebServices project folders include the implementation of encapsulation logic for the domain model of clinicDomain.
- For some reason I need to transfer beans.xml file from ClinicService project to ClinicSoapWebService project, because not doing so was giving me a NullPointerException for retrieving siteInfo() string.
- The assignment teaches us how to use various java web services. And how the whole domain model is encapsulated through service oriented architecture.