**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>

<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.