CS548-Assignment Eight Changshuo Gao

1. Ping the service to test the REST Web service is properly set up

Command

curl -X GET -D patientSiteInfo_headers http://ec2-54-172-223-23.compute-1.amazonaws.com:8080/ClinicRestWebService/resources/patient/siteinfo

header file

HTTP/1.1 200 OK

X-Powered-By: Servlet/3.0 JSP/2.2 (GlassFish Server Open Source Edition 3.1.2 Java/Oracle Corporation/1.7)

Server: GlassFish Server Open Source Edition 3.1.2

Content-Type: text/plain Transfer-Encoding: chunked

Date: Tue, 25 Nov 2014 03:27:23 GMT

2. Query a patient resource

Command

curl -X GET -D getPatient_headers http://ec2-54-172-223-23.compute-1.amazonaws.com:8080/ClinicRestWebService/resources/patient/1301

XML format

```
url="http://ec2-54-172-223-23.compute-
1.amazonaws.com:8080/ClinicRestWebService/resources/treatment/1303"
    relation="http://cs548.stevens.edu/clinic/rest/relations/treatment"
    mediaType="application/xml" />
</patientRepresentation>
```

Header file

HTTP/1.1 200 OK

X-Powered-By: Servlet/3.0 JSP/2.2 (GlassFish Server Open Source Edition 3.1.2 Java/Oracle Corporation/1.7)

Server: GlassFish Server Open Source Edition 3.1.2

Content-Type: application/xml

Content-Length: 522

Date: Tue, 25 Nov 2014 03:27:47 GMT

3. Query a provider resource

Command

curl -X GET -D getProvider_headers http://ec2-54-172-223-23.compute-1.amazonaws.com:8080/ClinicRestWebService/resources/provider/ByNPI/9876

XML Format

Header File

HTTP/1.1 200 OK

X-Powered-By: Servlet/3.0 JSP/2.2 (GlassFish Server Open Source Edition 3.1.2 Java/Oracle Corporation/1.7)

Server: GlassFish Server Open Source Edition 3.1.2

Content-Type: application/xml

Content-Length: 503

Date: Tue, 25 Nov 2014 03:28:17 GMT

4. Add a patient resource

Command

curl -X POST -D addPatient_headers -H "Content-type: application/xml" -d @new-patient.xml http://ec2-54-172-223-23.compute-1.amazonaws.com:8080/ClinicRestWebService/resources/patient

XML File

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
    <patientRepresentation
        xmlns:ns2="http://cs548.stevens.edu/clinic/service/web/rest/data">
        <ns2:patient-id>1235</ns2:patient-id>
        <ns2:name>Ken</ns2:name>
        <ns2:dob>1989-01-01</ns2:dob>
        <ns2:age>25</ns2:age>
    </patientRepresentation>
```

Header File

HTTP/1.1 201 Created

X-Powered-By: Servlet/3.0 JSP/2.2 (GlassFish Server Open Source Edition 3.1.2 Java/Oracle Corporation/1.7)

Server: GlassFish Server Open Source Edition 3.1.2

Location: http://ec2-54-172-223-23.compute-

1.amazonaws.com:8080/ClinicRestWebService/resources/patient/1304

Content-Length: 0

Date: Tue, 25 Nov 2014 03:29:22 GMT

5. Add a provider resource

Command

curl -X POST -D addProvider_headers -H "Content-type: application/xml" -d @new-provider.xml <u>http://ec2-54-172-223-23.compute-1.amazonaws.com:8080/ClinicRestWebService/resources/provider</u>

XML File

Header File

HTTP/1.1 201 Created

X-Powered-By: Servlet/3.0 JSP/2.2 (GlassFish Server Open Source Edition 3.1.2 Java/Oracle Corporation/1.7)

Server: GlassFish Server Open Source Edition 3.1.2

Location: http://ec2-54-172-223-23.compute-

1.amazonaws.com:8080/ClinicRestWebService/resources/provider/1305

Content-Length: 0

Date: Tue, 25 Nov 2014 03:29:59 GMT

6. Add a treatment resource

AddTreatment Function

```
@P0ST
@Consumes("application/xml")
public Response addTreatment(TreatmentRepresentation treatmentRep)
{
   try
   {
       int patDbIdIndex = treatmentRep.getPatient().getUrl().lastIndexOf('/') +
          1:
       long patKey = Long.parseLong(treatmentRep.getPatient().getUrl()
              .substring(patDbIdIndex));
       int provDbIdIndex = treatmentRep.getProvider().getUrl().lastIndexOf('/')
          + 1;
       long provKey = Long.parseLong(treatmentRep.getProvider().getUrl()
              .substring(provDbIdIndex));
       ObjectFactory factory = new ObjectFactory();
       TreatmentDto trmtDto = factory.createTreatmentDto();
       trmtDto.setDiagnosis(treatmentRep.getDiagnosis());
       if (treatmentRep.getDrugTreatment() != null)
          DrugTreatmentType drug = factory.createDrugTreatmentType();
          drug.setName(treatmentRep.getDrugTreatment().getName());
          drug.setDosage(treatmentRep.getDrugTreatment().getDosage());
          trmtDto.setDrugTreatment(drug);
       if (treatmentRep.getSurgery() != null)
          SurgeryType surgery = factory.createSurgeryType();
          surgery.setDate(treatmentRep.getSurgery().getDate());
          trmtDto.setSurgery(surgery);
       if (treatmentRep.getRadiology() != null)
          RadiologyType radiology = factory.createRadiologyType();
          List<Date> dates = radiology.getDate();
          for (Date date : treatmentRep.getRadiology().getDate())
          {
              dates.add(date);
          }
```

```
trmtDto.setRadiology(radiology);
}

long trmtKey = providerService.addTreatmentByDbId(patKey, provKey, trmtDto);

UriBuilder ub = context.getAbsolutePathBuilder().path("{id}");
URI url = ub.build(Long.toString(trmtKey));
return Response.created(url).build();
}
catch (ProviderServiceExn e)
{
    throw new WebApplicationException();
}
```

Command

curl -X POST -D addTreatment_headers -H "Content-type: application/xml" -d @new-treatment.xml http://ec2-54-172-223-23.compute-1.amazonaws.com:8080/ClinicRestWebService/resources/treatment

XML File

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<treatmentRepresentation
   xmlns:ns2="http://cs548.stevens.edu/clinic/service/web/rest/data">
   <ns2:patient
       url="http://http://ec2-54-172-223-23.compute-
1.amazonaws.com:8080/ClinicRestWebService/resources/patient/1301"
       relation="http://cs548.stevens.edu/clinic/rest/relations/patient"
      mediaType="application/xml" />
   <ns2:provider
       url="http://http://ec2-54-172-223-23.compute-
1.amazonaws.com:8080/ClinicRestWebService/resources/parovider/1302"
       relation="http://cs548.stevens.edu/clinic/rest/relations/provider"
      mediaType="application/xml" />
   <ns2:diagnosis>fracture/ns2:diagnosis>
   <ns2:drug-treatment>
      <ns2:name>Pain Killer</ns2:name>
      <ns2:dosage>30.0</ns2:dosage>
   </ns2:drug-treatment>
</treatmentRepresentation>
```

Header File

HTTP/1.1 201 Created

X-Powered-By: Servlet/3.0 JSP/2.2 (GlassFish Server Open Source Edition 3.1.2 Java/Oracle Corporation/1.7)

Server: GlassFish Server Open Source Edition 3.1.2

Location: http://ec2-54-172-223-23.compute-

1.amazonaws.com:8080/ClinicRestWebService/resources/treatment/1306

Content-Length: 0

Date: Tue, 25 Nov 2014 03:31:28 GMT