

```
"resourceType" : "Patient"
"text" : {
  "status" : "generated"
  "_status" : {
    "id" : "12344"
  },
  "div" : "<div
"},
"identifier"
{
  "use"
  "ty
```

# FHIR FUNDAMENTALS COURSE

**FAST  
HEALTHCARE  
INTEROPERABILITY  
RESOURCES**



**FHIR Course, Unit 3:**  
**Transaction on FHIR**  
**Activity**

## Course Overview

### *Module I: Introduction*

*Introduction to FHIR*

*Resources*

### *Module II: Work with FHIR*

*RESTful FHIR*

*Searching with FHIR*

### *Module III: FHIR advanced*

*Transactions*

*Paradigms*

*Messaging*

*Documents and CDA R2*

*Operations*

### *Module IV: FHIR Conformance*

*Conformance Resources*

*Extensions*

*Profiles*

*Implementation*

---

## CONTEXT

You are the brand new manager for EHR interoperability of UWearMe, a division of HealthGizmos Corp. UWearMe is distributing a very small wearable device (the UWM 1.0) capable of sending to the patient EHR various vital signs, including (for version 1.0): heart rate, respiratory rate, diastolic and systolic blood pressure.

UWearMe has installed a FHIR result repository at <http://fhirserver.hl7fundamentals.org/fhir>

(Can you believe the coincidence, it's our own FHIR Server for this course!)

For the first pilot, what your manager is asking you to do is create a transaction including the Patient, Device, and Observations for the four values the device is currently transmitting.

One of your engineers created a template in JSON and XML, which you can find in **MeasureTemplateComplete.xml** and **MeasureTemplateComplete.json**, but he left the company yesterday (apparently, he was contracted by Apple for Apple Health).

You need to complete the Patient information using your own (as you did for our second assignment), and the Device / Observation using the following data:

Description	LOINC Code	Unit
Systolic Blood Pressure	8480-6	mmHg
Diastolic Blood Pressure	8462-4	mmHg
Heart Rate	8867-4	/min
Respiratory Rate	9279-1	/min

### Part 1 – POST TRANSACTIONS

Post at least 3 transactions for the same patient, holding four different measures for the 4 vital signs, separated by 15 minutes.

### Part 2 – READ ALL THE RESOURCES

Using only one operation to the server, retrieve all the patient measures, so the UX team can draw a graph of the vital signs.