

Reference Implementation for eLTSS FHIR

Prerequisite Requirements:

- a) Windows Server 2012 or newer on dedicated server
- b) Java JDK 8
- c) Apache Maven 3.6.1
 - i. To Install Apache Maven
 - 1. Download apache-maven-3.6.1-bin.zip
<https://archive.apache.org/dist/maven/maven-3/3.6.1/binaries/> and extract files
 - 2. Copy "apache-maven-3.6.1" folder into C:\Program Files\
 - 3. Append system variable Path with ";C:\Program Files\apache-maven-3.6.1\bin"
 - 4. For Maven, System Variable JAVA_HOME needs to point to "C:\Program Files\Java\jdkx.x.x_xxx". If System Variable JAVA_HOME does not already exist, then create System Variable Name "JAVA_HOME" and set Variable Value to "C:\Program Files\Java\jdkx.x.x_xxx" (x=java version)

Install HAPI FHIR Server 3.8.0

- a) Download and extract **eLTSS-FHIR-RI**
 - i. Open folder **1. hapi.fhir.server 3.8.0** and copy then paste the **hapi-fhir-jpaserver-starter-master.zip** file to the server root folder **C:**
 - ii. Extract the ZIP file in root folder **C:**
 - iii. Confirm creation of folder **C:\hapi-fhir-jpaserver-starter-master**
- b) Open Windows Command Processor aka: command prompt (be sure to "Run as Administrator"). Navigate to "**C:\hapi-fhir-jpaserver-starter-master**" directory and run the following commands:
 - i. **mvn install** (this may take approximately 5 minutes)
 - ii. **mvn jetty:run**
 - iii. Minimize but do not close this process window while the HAPI-FHIR Server is running.
- c) Confirm HAPI FHIR Server 3.8.0 is installed
 - i. Open web browser and launch URL: <http://localhost:8080/hapi-fhir-jpaserver/>

Server	HAPI FHIR R4 Server
Software	HAPI FHIR Server - 3.8.0
FHIR Base	http://localhost:8080/hapi-fhir-jpaserver/fhir/

d) Open folder **2. us-core-fhirr4 profiles and scripts**

- i. Run **curlscript.bat** to install us-core-fhirr4 profiles and scripts
- ii. Confirm us-core-fhirr4 profiles and scripts install – Restart Jetty Server
 1. Close (stop) the Jetty Server. Within the Windows Command Processor window press **control+c** and then enter **Y** at “Terminate batch job [Y/N]?”
 2. Start the Jetty Server. Within the Command Processor Window run the following command:
 - a) **mvn jetty:run** (minimize but do not close this process window when finished)
 3. Open web browser and launch url:
<http://localhost:8080/hapi-fhir-jpaserver/>
 4. Notice that there are now Resources that have some numbers next to them showing how many records have been posted to the resource.

Resources	
ValueSet	30
StructureDefinition	28
CodeSystem	4
CapabilityStatement	2
Account	

e) Open folder **3. eltss profiles and scripts**

- i. Run **curlscript.bat** to install eltss profiles and scripts install eltss profiles and scripts
- ii. Confirm eltss profiles and scripts install – Restart Jetty Server

1. Close (stop) the Jetty Server. Within the Windows Command Processor window press **control+c** and then enter **Y** at “Terminate batch job (Y/N)?”
2. Start the Jetty Server. Within the Command Processor Window run the following command:
 - a) **mvn jetty:run** (minimize but do not close this process window when finished)
3. Open web browser and launch url: <http://localhost:8080/hapi-fhir-jpaserver/>
4. Notice that there are now Resources that have some numbers next to them showing how many records have been posted to the resource



- f) Open folder **4. eltss test transactions and scripts**
 - i. Run **curlscript.bat** to install eltss test transactions and scripts
 - ii. Confirm eltss test transactions and scripts install – Restart Jetty Server
 1. Close (stop) the Jetty Server. Within the Windows Command Processor window press **control+c** and then enter **Y** at “Terminate batch job (Y/N)?”
 2. Start the Jetty Server. Within the Command Processor Window run the following command:
 - a) **mvn jetty:run** (minimize but do not close this process window when finished)
 3. Open web browser and launch url: <http://localhost:8080/hapi-fhir-jpaserver/>
 4. Notice that there are now Resources that have some numbers next to them showing how many records have been posted to the resource

Resources

StructureDefinition 44	Claim 5
ValueSet 32	Contract 5
Practitioner 20	Coverage 5
Condition 15	EpisodeOfCare 5
ServiceRequest 15	Location 5
CarePlan 10	Patient 5
Goal 10	Questionnaire 5
Organization 10	QuestionnaireResponse 5
RelatedPerson 10	RiskAssessment 5
Observation 9	CapabilityStatement 4
CodeSystem 6	Account

g) End. eLTSS HAPI FHIR Server 3.8.0 has been successfully installed.