



# Ignite change.



Jenni Syed

*Principal Architect*

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Creating  
**healthier**  
stories

The background is a solid blue color with various white icons. These include a family of three (a woman, a man, and a child), a globe, a padlock, a medical bag, a smartphone, a DNA double helix, a bar chart with an upward arrow, a gear, a calendar, and a laptop. The icons are arranged in a way that suggests a focus on healthcare, technology, and global connectivity.

# FHIR Deep Dive: LAB

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# Setup

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# Installation

- Install Postman: <https://www.getpostman.com/>
  - This is a ReST client that will help make service calls
- The FHIR server we will be working with today is: <https://fhir-open.sandboxcerner.com/dstu2/0b8a0111-e8e6-4c26-a91c-5069cbc6b1ca/>

# Patients

- Smart, Valerie (id: 4596007)
- Smart, Wilma (id: 4342008)
- Smart, Nancy (id: 4342009)
- Smart, Joe (id: 4342010)
- Smart, Hailey (id: 4342011)
- Smart, Timmy (id: 4342012)
- Smart, Fred (id: 4478007)
- Peters, Tim (id: 1316024)



# Exercise 1

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# Exercise 1

- Identify the FMM (maturity model) of the Following resources for DSTU 2:
  - Patient
  - Condition
  - Observation
  - Coverage



# Exercise 2

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# Exercise 2

- Find out what resources are available in Millennium's HL7 FHIR DSTU 2 implementation that are not in the May2015 implementation.



# Exercise 3

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# Exercise 3

- What search parameters does the Millennium DSTU 2 implementation of Patient support? Are there any limitations or considerations?



# Exercise 4

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# Exercise 4

- According to the Conformance statement, does this FHIR server support OAuth? <https://fhir-open.sandboxcerner.com/dstu2/0b8a0111-e8e6-4c26-a91c-5069cbcb6b1ca/>



# Exercise 5

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# Exercise 5

- Find out the middle name for Fred Smart (id 4478007)



# Exercise 6

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# Exercise 6

- How many **current** allergies or intolerances does Tim Peters have?
- Current: actual or possible existing allergies or intolerances
- Hint: What indicates “current” for this FHIR resource?



# Exercise 7

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# Exercise 7

- Does Wilma Smart have a normal blood pressure?
- Hint: LOINC 55284-4 can be used to find blood pressures



# Exercise 8

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# Exercise 8

- What is the name of the patient with MRN 10000363
- Hint: the system is urn:oid:1.1.1.1.1.1 (oid)



# Exercise 9

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# Exercise 9

- Is Fred Smart currently taking insulin?



# Exercise 10

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# Exercise 10

- Which has a pacemaker: Fred Smart or Tim Peters?



# Exercise 11

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# Exercise 11

- How many different orders of *Advil Cold and Sinus* does Tim Peters have?



# Exercise 12

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# Exercise 12

- Who is patient 2918007's mother?



# Exercise 13

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# Exercise 13

- What happens when you query Condition for Joe Smart and filter by a category of complaint? Why?



# Bonus Round

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Questions?