



The HL7 FHIR[®] Experience

Preparing for Experiential Learning: Tools and infrastructure

1. Install a REST client on your machine, e.g.
 - a. Postman (<https://www.getpostman.com/>)
 - b. Firefox + RESTClient Plugin
2. Make yourself familiar with how to annotate and save REST interactions with the client, so you can revisit the Exercises from this course at a later time.
3. Choose a (public) testserver [base]
 - a. <http://test.fhir.org/r3>
 - b. <http://fhirtest.uhn.ca/baseDstu3/>
 - c. <https://vonk.furore.com>
 - d. [more:](#)
http://wiki.hl7.org/index.php?title=Publicly_Available_FHIR_Servers_for_testing
4. We will be working with version STU3 of FHIR and both version 1.0.1 and the development version of US Core and Version 1.0.0 of Argonaut Provider Directory
 - a. (<http://hl7.org/fhir>)
 - b. <http://hl7.org/fhir/us/core/>
 - c. <http://build.fhir.org/ig/HL7/US-Core/>
 - d. <http://www.fhir.org/guides/argonaut/pd/>
5. Obtain an editor to edit XML files
 - a. Here is a url for the notepad++ tool with the XML plugin:
<https://tinyurl.com/yc4rn6s7>
 - b. For Mac I recommend Atom or Sublime (No plugin)

Using this document

Important hints are highlighted:

Important notice

Next to the FHIR logo, you will find links to the relevant parts of the FHIR specification for the Exercise



<http://hl7.org/fhir/index.html>

1. JavaScript FHIR Programming using fhir.js

In this Exercise we will show how to leverage the fhir.js library to access any STU3 server.

This illustrate actual use of libraries to achieve programmatic access to FHIR data.

The provided solution allows the user to show a list of candidates after a patient search, select one of the patients, and show the patient's clinical information (allergies, conditions and observations)

Solution Manifest

Requires jquery, mustache and fhir-client

jquery-2.0.3.min.js

<https://rawgithub.com/janl/mustache.js/master/mustache.js>

<https://cdn.rawgit.com/smart-on-fhir/client-js/v0.1.8/dist/fhir-client.js>

Solution Manifest

demo-settings.js	Set your FHIR server base. Example "https://r3.smarthealthit.org" (FHIR DSTU3)
index.html	Search for the patient and render the list of candidates using a mustache template (Given, Family as parameters)
get-data.js	Gets the details for a patient (observations, allergies, conditions)
get-pat-data.js	Gets the list of patients - optionally filtered by last name and/or first name
see.png	Image/icon
styles.css	Style definition for the HTML pages
summary.html	Search for the patient and render the observations, allergies and conditions using 3 different templates

Your job: The current solution allows to view allergies, conditions, and observation.

Add support to also view the Procedures related to a patient.

Files can be downloaded from <https://goo.gl/dHX61m>

You can also see and use the solution on line in Plunker

<http://plnkr.co/N792ofGu4oPxx3dZW08K>