



02 - Complex Asserts - FHIRPath

Test Driven Development II - Advanced - Exercise

Track: Test Driven Development II - Advanced

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During this hands-on session of the Test Driven Development II - Advanced tutorial we will examine TestScripts that compare the use of JSONPath or XPath expressions to FHIRPath expressions.

TestScripts for this exercise are in the **FHIRSandbox/AEGIS/FHIR3-0-1-DevDays18/TDD-2-Advanced/02-FHIRPath Test Definitions*

Test Scenario

The use case for this test scenario involves two steps:

1. Create two new Patient resource instances using known, static fixtures
2. Search for the created Patients based on the known data from the static fixture

The success outcome is that the search operation will return greater than zero Patient matches.

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Create two new Patient resource fixtures in the setup section and then search for the created Patients using known values from the static fixtures.

Features

- ❖ Uses the setup section to initialize the FHIR system under test by creating the two Patient resource instances needed for the subsequent search test; *examine and become familiar with the TestScript*
- ❖ Examine the various search operation asserts that test the searchset Bundle contents and compare their expression logic

The focus of this test is to compare assert expressions of JSONPath / XPath versus FHIRPath.

- ❖ Observe the JSON formatted TestScript use of JSONPath and the XML formatted TestScript use of XPath compare them with the FHIRPath equivalent asserts; *what is the benefit of using the FHIRPath expressions?*
- ❖ *Based on your knowledge of FHIRPath, try to define additional FHIRPath asserts that test the searchset Bundle contents.*

Have fun! And, remember to ask for help if you get stuck.

Please note:

- The exercises can be made in the hands-on area, where each track has its own table, indicated with a track sign. The track lead will be present for guidance and review.
- Exercises will only be discussed or reviewed during the HL7 FHIR DevDays 18 in Boston
- Any questions or remarks after the conference can be addressed in the FHIR chat on Zulip:
<https://chat.fhir.org>