03 - Complex Asserts - Rules

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 show the use of Rules and the Touchstone Rules Engine.

TestScripts for this exercise are in the **FHIRSandbox/AEGIS/FHIR3-0-1-DevDays18/TDD-2-Advanced/03-Rules Test Definitions*

Test Scenario

The use case for this test scenario involves two steps:

1. Create a new Patient resource instance using a known, static fixture
2. Read the created Patient using the _summary=true option

The success outcome is that the returned Patient instance only contains the FHIR indicated summary elements.

TDD-2-Adv-03-Complex-Rules-patient-read-summary-[xxx]

Create a new Patient resource fixture in the setup section and then read the created Patient using the _summary=true option.

Features

- Uses the setup section to initialize the FHIR system under test by creating the Patient resource instance needed for the subsequent read test; *examine and become familiar with the TestScript*
- Defines the referenced rule; *observe that there are no rule parameters - why?*
- Examine the various read operation asserts that test the returned Patient contents; specifically, the assert that calls the defined rule

The focus of this test is to illustrate the use of Rules and the Touchstone Rules Engine to simplify the TestScript assert definitions; i.e. reduce and consolidate the number of individual asserts.

Key Concept: Touchstone Rules Engine and Rule Language Support

- **Touchstone Rules Engine has access to the complete executed operation context**
- **Current scripting languages supported are Groovy, Schematron and XSLT**
- **The Touchstone Test Definitions UI provides a filter mechanism that allows the user access to uploaded rule definitions**

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

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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

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