04 - Test Execution - Invalid Resource

Test Driven Development I - Intro – Exercise

Track: Test Driven Development I - Intro
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During this hands-on session of the Test Driven Development I - Intro tutorial we will explore TestScript Execution within the Touchstone Project environment. This exercise examines a single create FHIR operation where the request payload is an invalid Patient resource instance and is processed by the FHIR Validation Engine. The following generic steps performed in sequence will be used to execute the TestScript:

1. **Create and execute a Test Setup**
   Related online document: Touchstone User Guide, Section 'Executing Tests/Creating Test Setup'.
2. **Examine the Test Execution interface**
   Related online document: Touchstone User Guide, Section 'Executing Tests/ Test Executions'.
3. **Examine the TestScript Execution interface**
   Related online document: Touchstone User Guide, Section 'Executing Tests/Test Execution Results'.

TestScripts for this exercise are in the **FHIRSandbox/AEGIS/FHIR3-0-1-DevDays18/TDD-1-Intro/04-InvalidResource Test Definitions*
Please refer to the Touchstone User Guide section or the previous exercise **Touchstone Execution - Basic Operations for help with the generic steps.*

TestScript Description

Invalid Resource

Test FHIR create operation using an invalid Patient resource instance. Touchstone will send an invalid Patient fixture to the system under test.

- Illustrates a simple negative test case.
- Uses the FHIR Patient resource base profile; *asserts invoke the FHIR Validation Engine using profiles*
- ***Note: This test is expected to fail.***

The focus of this test is to illustrate a failure based on the FHIR Validation Engine. The profile assert is testing the HTTP request payload which is an intentionally invalid Patient resource instance sent by Touchstone acting as the FHIR client system.

- *Does the profile assert against the HTTP request payload make sense?*
- Examine the TestScript asserts following the create operation; *what additional asserts would be useful/needed to provide better test coverage?*
- *How could this TestScript be modified to represent a more real-world scenario?*

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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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