



Exercises

Test Driven Development II - Advanced

Track: Test Driven Development II - Advanced

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During the hands-on session of the Test Driven Development II - Advanced tutorial, you will learn some advanced testing concepts and how they are defined, executed and evaluated within Touchstone.

After completing this tutorial, you will be able to:

- Understand how reliable testing is defined and supported in Touchstone
- Understand complex asserts that use FHIRPath and external Rules
- Execute and evaluate FHIR Client or Peer-to-Peer testing within Touchstone
- Understand how to analyze and write test definitions that can then be expressed as FHIR TestScripts

Advanced Testing Concepts with Touchstone

There are six (6) exercises that will help you understand and become familiar with advanced testing concepts and how they can be defined, executed and evaluated within Touchstone:

1. Reliable (and Repeatable) Testing
2. Complex Asserts - FHIRPath
3. Complex Asserts - Rules
4. Complex Asserts - Rulesets
5. FHIR Client (or Peer-to-Peer)
6. TestScript Definition (continued) - Connectathon Track

Requirements

You will require the following to successfully complete these exercises:

- A computer with internet access
- A current browser; Firefox or Chrome is preferred
- A FHIR capable implementation as your “system under test” – you are welcome to use any of the publicly available test systems in Touchstone if you do not have one

The detailed tutorial documents for these exercises can be found at:

[https://github.com/rettema/DevDays-Exercises/DevDays18-Boston/Test Driven Development II - Advanced](https://github.com/rettema/DevDays-Exercises/DevDays18-Boston/Test%20Driven%20Development%20II%20-%20Advanced)

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>