The FHIR® Roadmap

ART-DECOR®

Tooling

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...is an open-source tool and a methodology for various multidisciplinary stakeholders of healthcare information exchange

...supports comprehensive collaboration of team members within/between governance groups

...supports creation, maintenance and federated sharing of HL7 templates (HL7 STU), value sets, and more

...has a built-in schematron engine to allow easy comprehensive validation and testing
Supporting the “Life” Cycle

- Communication need
- Production
- Scenarios
- Test
- Specification
- Implementation

Structures
Terminologies
Processes
Functionality Overview

ART-DECOR® Project, Governance Group

- **Concept**
  - data sets
  - scenarios
  - rules
  - identification
  - terminology
  - issues

- **Scenario**
  - concepts
  - use cases
  - instructions
  - OIDs
  - value sets
  - description

- **Rules**
  - value
  - constraints
  - conditions
  - systems
  - status

- **Identifiers**
  - transactions
  - validation
  - code
  - terminologies
  - assignments

- **Codes**
  - OID
  - OIDs
  - systems
  - terminology

- **Issues**
  - assignments
  - trackings

Federated sharing through Building Block Repositories (BBR)
Template Viewer / Editor

- Create / Maintain / Share Templates + …
- Template Viewer for HL7’s STU format
- Two Template Editors
- Derive Artefacts: Documentation, Implementation, Support, Validation/Testing
ART-DECORs FHIR® Roadmap

- **FHIR® Profile/Resource Viewer**
- **Multiple Exports from / Import to genuine ART-DECOR artefacts**
- **Collaboration with FHIR® Repositories**
  - simplifier.net
- **FHIR® Terminology Services**
  - Participation at the first Terminology Connectathon
- **FHIR® Implementation Guide Resources**
  - Using it for FHIR® and CDA IGs
- **FHIR® Profile Editor**
  - not planned
ART-DECOR’s FHIR® Roadmap

**Front end**
- Editor, Mappings

**ART-DECOR backend**
- Concept
- Scenario
- Rules
- Identifiers
- Codes
- Issues

**FHIR features**
- Logical Models
- Structure Definitions
- Naming System
- Concept Maps
- Value Sets
- Terminology Server

**FHIR® Conformance Resources**
Logical <-> StructureDefinition

[Diagram showing the relationships between elements such as "name", "flags", "cardinality", "type", and "description & constraints" for a logical structure definition.

Code snippet:

```xml
<element id="AllergyIntolerance.substance">
  <path value="AllergyIntolerance.substance"/>
  <short value="CausativeSubstance"/>
  <alias value="VeroorzakendeStof"/>
  <binding>
    <strength value="extensible"/>
    <valueSetReference>
      <reference value="http://decor.nictiz.nl/fhir/ValueSet/"
      <display value="VeroorzakendeStofCodeLijst"/>
    </valueSetReference>
  </binding>
  <mapping>
    <identity value="zib-allergieintolerantie"/>
    <map value="NL-CM-8.2.2"/>
  </mapping>
</element>
```
Thus: things on the road

- More FHIR integration
- Terminology Services
- Issue and version management
- Diff functionality for ART-DECOR artifacts

- Organizational
  - ADOT: ART-DECOR Open Tools
- Question: FHIR validation and testing
Thank you

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