Structured Data Capture
Session 1
Avanti Joshi
Track Lead
About Me

• Name : Avanti Joshi

• Background :
  • Health Informatics Consultant
    • SDC Project
    • V2-FHIR Project
  • HL7 India Technical Committee Member

• Connect with me : FHIR India Community-WhatsApp, Zulip, LinkedIn
Structured Data Capture (SDC) Track

Structured Data Capture (SDC)

This track intends to design and test FHIR Questionnaire and QuestionnaireResponse resources conformant to the SDC Implementation Guide. A few selected forms and questionnaires used in the Indian Healthcare System will be converted into FHIR Questionnaires and QuestionnaireResponses and tested for a viable design approach for consistent coherent data collection.

Target Audience
- Solution Architects
- Application Front-end Developers
- UX / UI Designers
- Clinicians (Interested in Form Design)
- FHIR Enthusiasts (Who wish to explore SDC)

Use Cases
1. General Wellness Questionnaire
2. Co-morbidities
3. Lab Test Report
4. Health Calculator
5. Hospital Based Cancer Registry (HBCR) Form

Tools
Questionnaires designed and rendered using LHC FHIR Tools

Track Lead
— Avanti Joshi —
Health Informatics Consultant
HL7 India TC Member
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Track Pre-requisites

- Knowledge of Forms and Questionnaires in the Healthcare Domain
- Knowledge of FHIR
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- SDC Workflow

[Diagram showing the SDC Workflow: Design -> Render -> Capture Data -> Extract Data -> Create FHIR Resources]
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• Scope
  • Design and validate the Questionnaires on FHIR Server

• Outcomes
  • 5 Questionnaires and the corresponding QuestionnaireResponses
LHC FHIR Tools
Walkthrough
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- LHC FHIR Tools in Scope
  - NLM Form Builder
  - SDC Questionnaire App

- LHC FHIR Tools Concerns
  - Not to be used in production - SDC Questionnaire App
Understanding the Use Cases
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• Use Case 01: General Wellness Questionnaire

  • Purpose: To understand the general habits of a person/patient
    • Food intake, Liquid intake, Exercise, Sleep, Smoking, Alcohol consumption etc.
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- Use Case 02: Co-morbidities

  - Purpose: Represent co-morbidities effectively along with the primary diagnosis
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- Use Case 03: Lab Test Report

  - Purpose: Capture commonly used Lab Test Reports
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- Use Case 04: Health Calculator

  - Purpose: Design form for Health Risk Assessment or Score values
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- Use Case 05: Hospital Based Cancer Registry (HBCR) Form

  - Purpose: Work on a form available in the public domain
Thank You