EHR.Network

Open I Scalable I Private I Secure

Clinical data repository

by

HealtheLife

Content

Component services

- openEHR Clinical Data Repository (CDR)
- Virtual folder

CDR

- Templates - represent distinct clinical data sets. Eg. Vitals, Lab results
- Compositions - Instances of template. Includes real clinical data & context
- Context - provider, practitioner, clinical setting, time etc

Virtual folder

- Arrange compositions - Visits, problem related
- Create views - Timeline, Problem Oriented Medical Record

Clinical Data Repository

- Follows openEHR Reference Model
- Template driven data schema
- Runtime schema changes
- Template defined data validation
- Supports multiple coding systems
- Flexible use of text & coded text
- Domain specific complex data types - quality, coded text etc.

Learn more - https://ehrbase.readthedocs.io/en/latest/02_getting_started/01_openEHR_introduction/index.html

openEHR Templates

- Created offline and ingested into the CDR
- Generic clinical data sets - Vitals, Lab reports, Family history
- Representing UI forms - OP summary, progress report
- Supports context data as per openEHR RM
- Supports queries across templates
- Versioned for CDR schema evolution

Learn more -

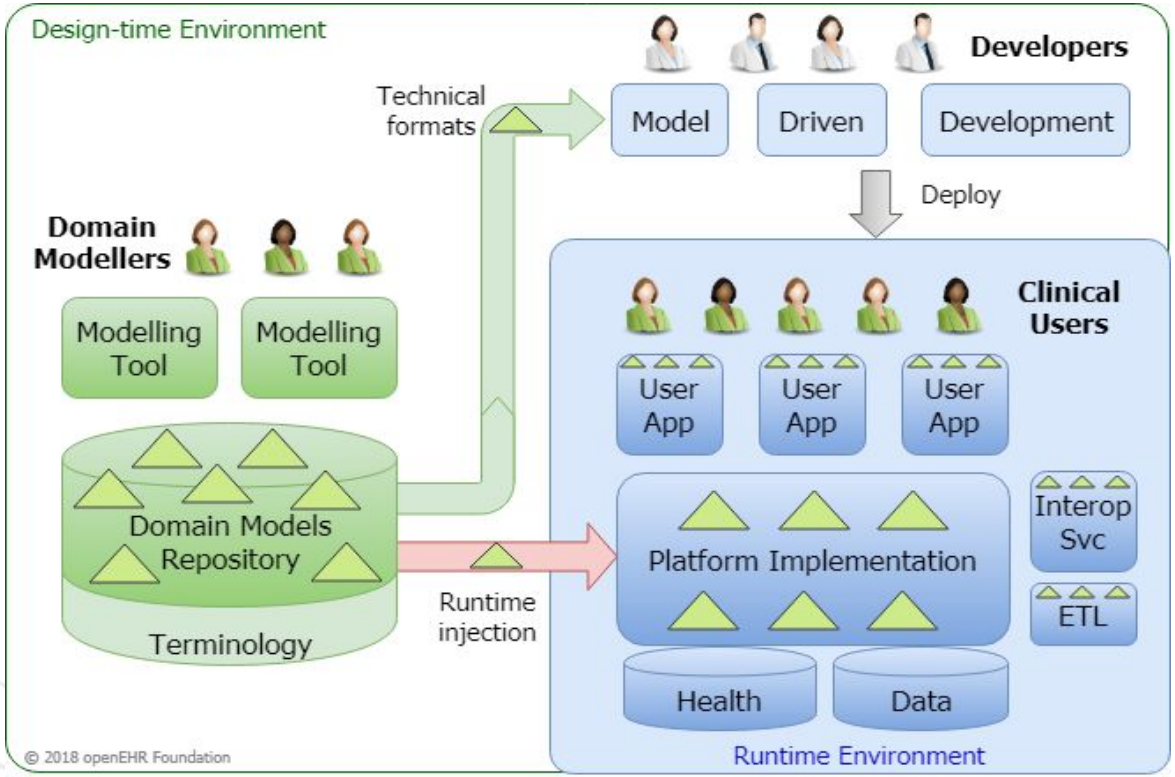
https://openehr.atlassian.net/wiki/spaces/healthmod/pages/415465475/Archetype+Designer+-+template+building+manual

Template examples

Category	Template name
Clinic Visits	• Progress Note • Vital signs • Complaints • Diagnosis
Prescription	• Medication order • Treatment plan
Test Result	• Imaging Report • Pathology Report
Persistent Lists	• Adverse Reaction List • Family History • Medication List • Problem List

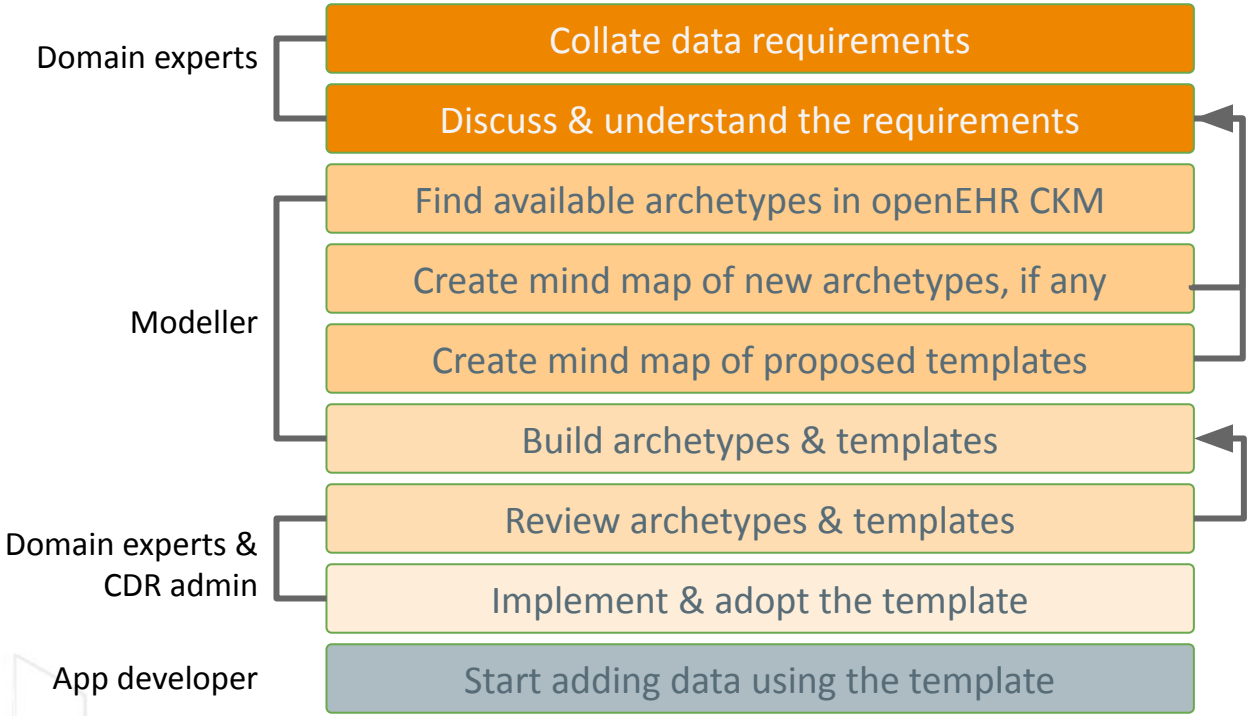
Clinical data modelling

Identify data requirements and design templates to suit the application



The model-driven openEHR technology ecosystem

Clinical modelling process



Compositions

- Instances of templates that store clinical data. They are the units of data
- Represent units of information resulting from a healthcare interaction & Created per patient/person
- Validated against template constraints when created/edited
- Versioned for audit
- Rich context data support - composer, participants, setting, organization, time
- Simplified FLAT JSON format for ease of app development

Learn more - https://ehrbase.readthedocs.io/en/latest/09_flat/index.html

Virtual folder

- Flexible folder hierarchies that represent views on clinical data
- Contains only references to compositions
- Multiple folders referencing same compositions
- Views to support app requirements - Longitudinal, problem specific, trends etc.
- Defined and managed by applications
- Folders can contain other folders

Available APIs

- List available templates in CDR
- Composition CRUD
- Virtual folder CRUD
- Patch APIs for composition references in virtual folders
- Execute predefined queries on clinical data

EHR.Network
www.ehr.network

CONTACT

Dileep V S

dileep@healthelife.in

Rupa Rao
rupa@healthelife.in

HealtheLife