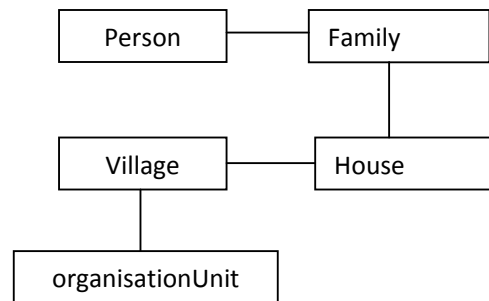


The requirement is to have a system capable of registering and coordinating visits for specific health programs (FP, ANC and Immunization at least to start with). And below is a little break-up of this.

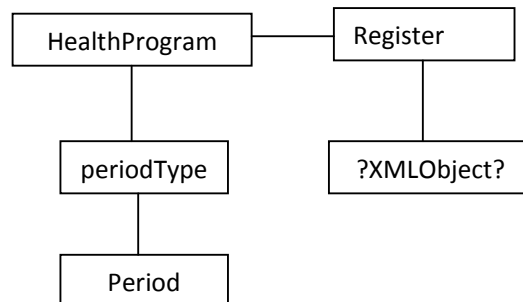
1. **Individual/Patient Management Module** –the requirement here is to systematically manage (as well as track) individuals. Very much similar to orgunit hierarchy operation and module in DHIS2.

- Person
 - First_name – string
 - Last_name – string
 - Age – (integer) or shall we make it dateOfBirth? Because at somepoint we will register birth!
- Family
 - Husband – person
 - Wife – person
 - Daughters – Set<Person>
 - Sons – Set<Person>
 - Address – house
- House
 - HouseNo – string
 - GpsLocation – string
- Village
 - Name – string
 - Children – Set<House>
 - Parent – organisationUnit



2. **Health Program Management** – This is something (I would say) similar to advanced dataset management. This module is to enable users manage programs (for e.g. Family Planning, ANC, Immunization, Line-List of Birth, Line-List of Death, ...)

- HealthProgram
 - Name – string
 - Frequency – periodType
 - ProgramPhase – Set<Register>
- Register
 - Name – string
 - Header – ?XMLObject?
 - Footer – ?XMLObject?
 - Columns – ?XMLObject?



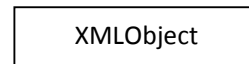
3. **Register Management** – Probably this is the most complicated part of the system. And I would be happy if Saptarshi can pull something from OpenMRS especially from the XML_Reporting module. Here things need to be saved in plain XML raw data – which I think is quite ok – because there will be a wide range of objects as part of a register (for example - person, dataelement, period, house, date, village,...)

- Functionalities expected from this module
 - Add/Edit/Remove register

- Assign objects to register
 - objects could be – dataelement, individual, house, village, period, date,...
- Arrange objects or create a register form
 - Depending on the type of objects assigned to the register a form need to be designed using different dataentry boxes (boolean, calendar, text/integer box, dropDown, hierarchy browsing, ...)

- XMLObject

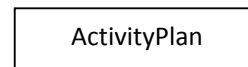
- Set<dataElement>
- Set<houseHoldVisit>
- date
- village
- ...



4. **Activity Plan Generator** – this module is to cross-check services/programs provided and forecast the next programPhase – activity plan. The forecast is expected to have a list of tasks detailing whatServiceToProvide(which phase, registerRelatedInformation, forWhom(individual), whereToGo (village, houseNo)

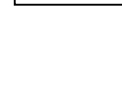
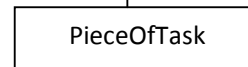
- ActivityPlan

- Owner – person (Health Extension Worker)
- Supervisor – person (Medical Officer)
- Date – date
- Activities – set<PieceOfTask>



- PieceOfTask

- Where – house
- When – date
- ForWhom – person
- What – houseHoldVisit



5. **Aggregation Module**

- As much as possible a ?freeText? (combinations of objects/dropDowns/...) query engine. Again there is a lot to take from OpenMRS cohort manager.
- Queries should be mapped to existing objects (or their combinations) and saved for later use.

