Android and OpenMRS

Current projects

- **Android OpenMRS** - Tom Routen (D-Tree)
  - For multiple device use in a clinic (multiple roles)
  - Registration, lab, etc
  - Shared database on device
  - Data storage on phone for low-connectivity
  - Data model and API running. Sync model to be tested soon in Zanzibar
  - For registration, treatment, and medication for treatment of malnutrition
  - No check for conflicts
  - Issues with how many patients to look through
  - Partition patient by clinic sight
  - Doesn't use the sync module

- **OpenMRS Android Client**
  - Will cover most of the functionality of the web application, including
    - Registering patients
    - Taking visit notes
    - Capturing Vitals
  - Supports working off-line (without network connection)
  - Communicates with OpenMRS using REST
  - [Click here for repository](#)

- **ODK Clinic** - Yaw Anokwa (UW)
  - Patient syncing on phone (prior project, code unreleased.)
  - Form filling feature (prior project, code unreleased.)
  - Downloading readonly patient data using Daniel's module
  - Downloads from server, then works offline
  - Incorporates bar code scanning
  - Support XForms multimedia survey through Collect (code unreleased)

- **Sana**
  - Formerly MocaMobile
  - Issues with use in Philippines
  - Wouldn't connect to GPRS
  - Only able to use as a xray capture device

- **e-Mocha**
  - Clone of ODK collect with additional functionality
  - Data on SD card is encrypted
  - Focus on education/training of CHWs
  - Doesn't use OpenMRS
  - Uses XForms to ask questions about CHWs

Additional Notes for an Android Project

- Google/Safaricom has announced the release of an **$100 Android phone** to the Kenya market
- For large deployment need HTC or Brightstar for phone supply
- Ampath has done a large rollout with a 20% device failure rate – mostly due getting refurbished phones
- May be better to buy the phone locally
- Lock IP address on sim card so it can only talk to the OpenMRS server
- Or set up proxy server and block outside sites
- More info can be found on the OpenMRS 2.x Android Client here: [OpenMRS 2.x Android Client](#)

Desirable features

- Bar code scanning
- Finger print scanning (could be done from taking picture of finger print stamp on paper)
- Being able to register new patients at a clinic setting
- Continuity of case management data
- District report printing from phone
- Cloud print for internet printing

**OpenMRS-JR** - Munaf Sheikh (Cell-Life)

- A feature-phone (J2ME) alternative
- Downloads patients and forms
- Fill out data and submits to OpenMRS
- Generally works, but current version has auth bug