

mUzima and other mobile solutions with OpenMRS

2017/12/12 – Lilongwe, Malawi – om.rs/17

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Notes

mUzima Experience

- Background - An adaptable, open source, Android-based mHealth platform that interoperates seamlessly with OpenMRS
 - Features
 - Pre-configured initial setup for Cohorts, Forms, Concepts and Observations, Locations, Providers data download
 - Real-time patient search and data download on demand
 - Works online and offline
 - Customizable settings
 - Timeout, real time data sync, form auto-save, real-time sync, default provider/location, traditional dashboard/client list, etc.
 - Robust error resolution mechanisms
 - Secure authentication
 - Device management & security
 - Supports of English, Swahili, Portuguese, and French
 - Implementation
 - AMPATH (Kenya)
 - CDM - Chronic Disease Management
 - LARK - Linkage and Retention
 - Oncology
 - Asymptomatic Leishmania Pilot Study (Ethiopia)
 - CDC/MOH of Kenya Home-based Counseling and Testing (Kenya)
 - Palladium - Technology Partner
 - FACES - Care and Treatment Partner
 - EGPAF - Care and Treatment Partner
 - Challenges
 - Implementation Supports and Training
 - Supports for different types of devices/android versions/OpenMRS versions
- Android support: 4.4 and above

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Concept synch with different use cases and implementations- CIEL/OCL can provide a normalization/socialization platform to ensure concept interoperability. AMPATH is in some state of mapping with CIEL.

Android Client for OpenMRS Experience

OpenSRP Experience

See

<https://docs.google.com/document/d/13aICcvZsN23QX9Mba05CylgvSHzWR1rxxRypGa3ftno/e/dit#heading=h.4vbyds76cu5l>

and

<http://smartregister.org/>

Other Mobile Technology

Bahmni Connect

The Bahmni Distribution includes an offline component called Bahmni Connect. It supports a subset of Bahmni functionality, and can be used on laptops/chromebooks or Android mobile devices.

Key functionality:

- patient registration
- viewing patient dashboards (observations, visits, treatments, lab orders, diagnoses)
- form entry

Key use cases:

- Field health workers
 - Followup treatment of patients (making their data available in the hospital)
1. Configure Bahmni Connect on the server
 2. Initial Sync of application/configuration/forms, and existing patients for a catchment area.
 3. Then you can go offline and capture data

Good documentation and videos:

[Feature Guide](#) (Bahmni Wiki)

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[Implementers Guide](#) (Bahmni Wiki)

[User Guide](#) (Bahmni Wiki)

[Functional Walkthrough](#) (YouTube Video)

Used at JSS in India, and in Bangladesh.

Action Items

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Other applications

[MedicMobile](#)

Version 1.9.7 and above-openMRS

Owais Hussain from Interactive Health Solutions: Android native client in Pakistan. Ao MTB Mitao. Covers 75%+ of devices. Supports 4.4+ Has tablet and mobile compatibility. Has offline operation with encrypted communication. Supports Right-to-Left language. Uses log files to collect feedback.

Comprehensive solution including OpenMRS, reporting, data collection devices, etc. Series of functionalities in the application around TB and comorbid conditions.

Client for OpenMRS only. Leverages HTML forms. Some basic reporting, views and basic searching for patients based not only on demographics. Integrates QR codes with check digits Includes GPS for every data element collected.

Uses Pentaho for indicator reports. Collecting 100,000 observations every day.

Speed:

Initial setup was an issue