Safe Water Kenya

Offline Mobile App Collects Critical Filter Installation Data

Delivering Clean Water to Save Lives Reducing Diarrheal Disease

- NGO providing safe water through the use of Hydraid Biosand filters in Kenya.
- Offline mobile survey app to collect detailed survey data.
- Survey App is an HTML 5.0 mobile web app using JQuery on mFinity (WebLogic 12c, Database 12c, Database Mobile Server) by partner mFrontiers
- 61,000+ Hydraid filters deployed to date, reducing incidences of diarrheal disease, e-coli and turbidity in drinking water – affecting the lives of 360,000+ people.

mFrontiers

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Challenges

- Manual survey data collection is inconvenient and cumbersome, requiring paper forms, camera and GPS device
- Subsequent transcribing of manual records onto a computer adds time and vulnerability to errors (plus the scanning of photos).
- Online direct entry of surveys onto digital devices not feasible due to lack of network connection in the field.

Solution

- Offline mobile survey app collects detailed survey information, photo, GPS coordinates, signature, filter serial number, etc, later uploading to server once connected to internet.
- Survey App developed as an HTML 5.0 mobile web app runs on mFinity Enterprise Mobility Management Platform without a single line of coding for DB Sync (WebLogic 12c, Database 12c, Database Mobile Server for offline database synchronization)

Results

- Hydraid Biosand filters have helped 360,000+ people in Kenya, to date
- 61,000+ filter installations to date, reducing incidence of diarrheal disease, e-coli and turbidity in drinking water
- For teams making house-to-house daily installations, mobile app simplifies completion of survey forms saves time overall, provides immediate on-line access by organization's, global network.

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Solution Architecture

safewater KENYA

Survey Data Capture Point

Water Filter Installation Site

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Water Filter Installation Site

Offline mobile survey app collects detailed survey information, GPS coordinates, photo, signature, filter serial number

Survey Data Sync Point

Water Filter Distribution center in **Kenya**

Internet

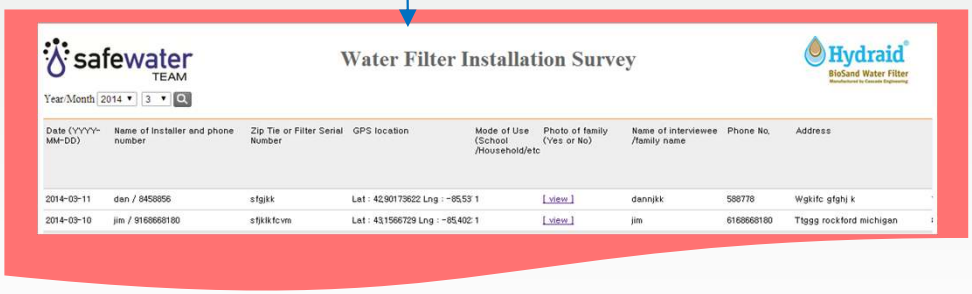
Oracle WebLogic 12c

mFinity EMMP Server

Oracle Database Mobile Server

DMS Repository

Oracle Database



The rapid reporting capability is a distinct advantage to SWK management in the U.S., and improves accountability to entities that are providing financial support to the organization

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