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The Problem

Solution

Data collection through a smartphone application.

The nurse selects the forms to

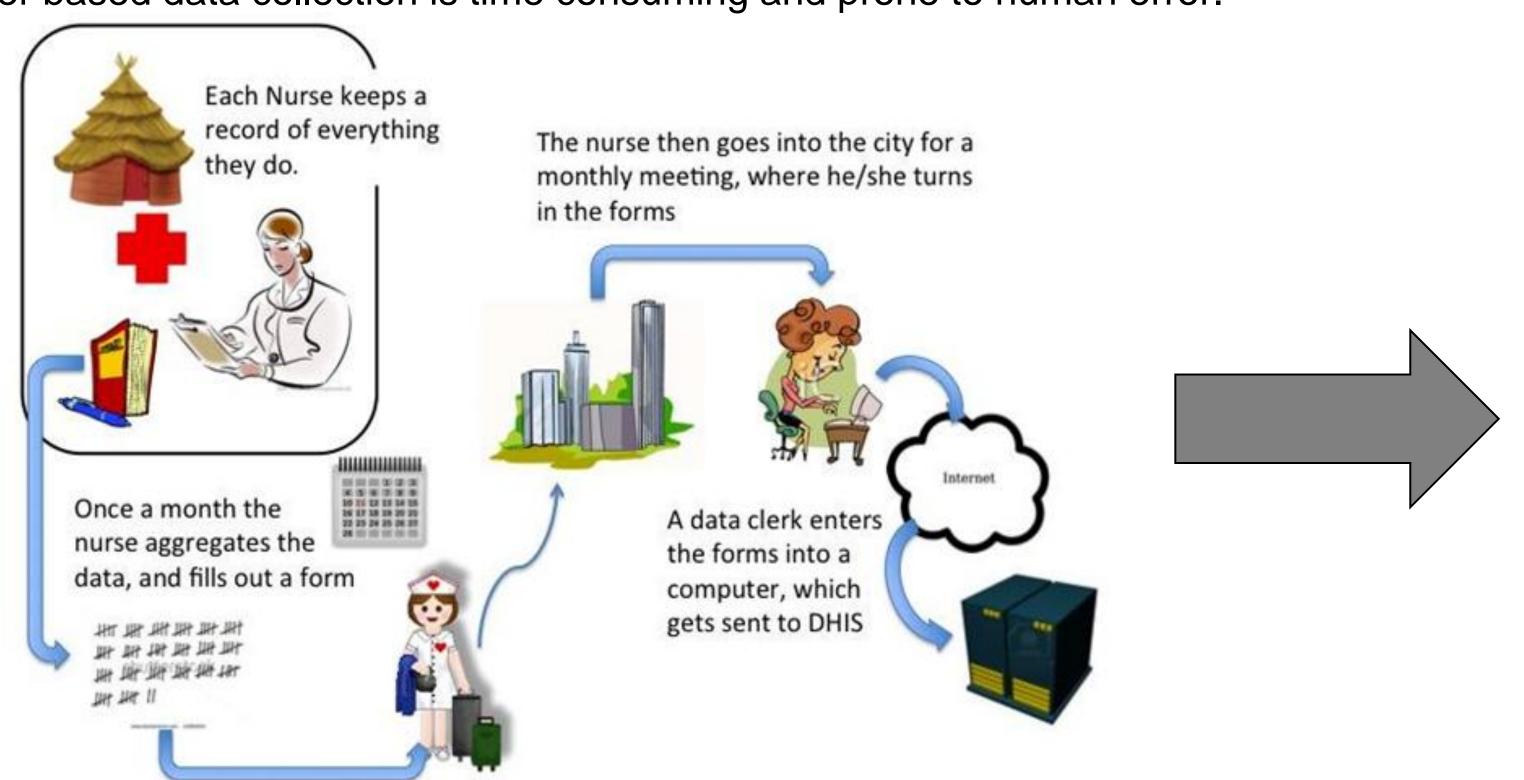
submit, which gets sent to DHIS

The nurse then goes into

an area where there is

internet connectivity

Paper based data collection is time consuming and prone to human error.



Why Smartphone Application?

Each Nurse keeps a

they do.

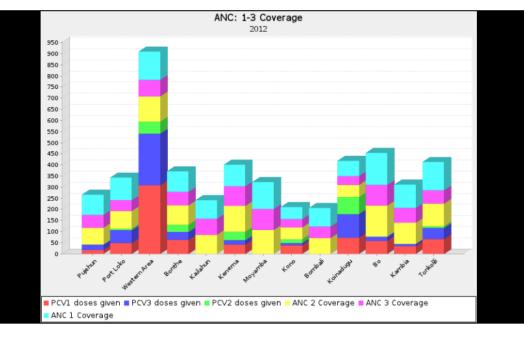
nurse aggregates the

data, and enters it into

the phone

record of everything

- View Data as well as Reporting it
- Provides way of reporting data anywhere
- Manage Power and Connectivity Issues.
- Hardware is cheap and easily available

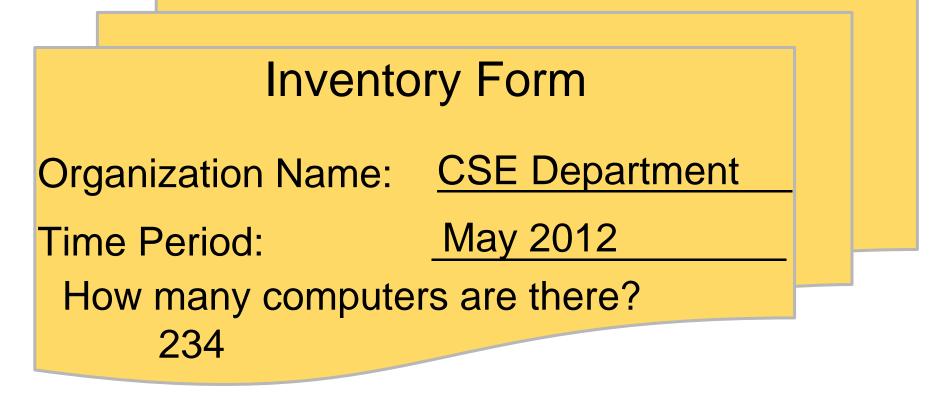


What is DHIS?

District Health Information System

Open Source Health Information system

- Database designed to store and analyze health information Currently in use in Africa and Asia
- covers 300~400 million people



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Architecture

Main System Components

Server Tasks

- Threaded Tasks
- Interacts with DHIS API
- Parses Data (JSON to Internal Objects)

Application Cache

- Holds all Forms + Reports
- Emulates DHIS data structures
- Responsible for saving changed data to disk

User Interface

Interacts with user to get data

