DashTricks

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DashTricks is an application that provides district immunization managers in Tanzania, with a dashboard for monitoring key Immunization indicators in their districts.
Project Goal

Give district managers a sense of ownership over their data to help them realize problems and make better vaccine management decisions intuitively and correctly.
Problem Statement

Quality data is neither easily accessible nor properly utilized to assist District Immunization Managers in making proper vaccine management decisions.
## Current Method

<table>
<thead>
<tr>
<th>Vaccine</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paper based registry and ledgers</td>
<td></td>
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<tr>
<td><strong>Hepatitis B</strong></td>
<td></td>
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<tr>
<td><strong>District Vaccine Data Management Tool</strong></td>
<td></td>
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<tr>
<td><strong>Stock management tool</strong></td>
<td></td>
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<tr>
<td>Diptheria, Tetanus, Pertussis</td>
<td></td>
</tr>
<tr>
<td>(DTaP, DTP, DT, Td, Tdap, DTap-HepB-IPV, DTap-IPV/Hib)</td>
<td></td>
</tr>
</tbody>
</table>
Reports are fragmented and difficult to analyze

Manual entry of data into SMT and DVDMT

Poor visualization of data

Time consuming
Solution

An Android tablet application to enable district managers to view and explore the performance of key immunization indicators in their district.

Key Indicators
Immunization Coverage
Vaccine Stock Levels
Cold Chain Performance

Exploration by
Vaccine
Location
Monthly Trend
Architecture

Data Source

Customized Data
Extraction Routines

Data Model
Local SQLite3

Visualization
D3.js in Android Webview

User Interface
Android Webview
Future Work

Implementing more exploration depth of cold chain and vaccine stock
Implementing data flagging capabilities
Implementing note taking capabilities
Adding animations to graphs
Exploring more correlations