DHIS 2 Android app
UX/UI future updates

Filtering, searching, sorting & grouping

Icons

June 18/2019 update
UI/UX enhancements

Proposal for

Global Filters
Tracker Filters & Sort
Tracker Search
Event Sort & Group
Current filters
Filtering system available since sept 2018

Limited to Period and OUs

Doesn’t ‘carry-over’ to Tracker listing/ Events

‘Invisible’
Global filters

Apply to all ‘activities’
→ datasets, events, tracker

AND operator across filters

Carried-over to next screen/ activity

| Periods          | Dataset periods  
<table>
<thead>
<tr>
<th></th>
<th>Event dates &amp; due dates</th>
</tr>
</thead>
</table>
| Org Unit         | Capture Org Unit     
|                  | for TEI: TEI OU || Enrollment OU || Event OU |
| Status           | Dataset status       
|                  | Enrollment/ event status |
| Sync Status      | Local sync status    |
Global filters: **Period**

Simple selection: before | now | after

Default: **any [missing]**

<table>
<thead>
<tr>
<th>Aggregate</th>
<th>Period date</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Example: a quarter will include corresponding months /weeks/ days</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Events</th>
<th>Event Date</th>
</tr>
</thead>
</table>

| Tracker   | Event date & Due date (not enrollment or incident date) |
Global filters: Org Unit

Additive search criteria

OU tree selector

Default: all

<table>
<thead>
<tr>
<th>Aggregate</th>
<th>OU capture</th>
</tr>
</thead>
<tbody>
<tr>
<td>Events</td>
<td>OU capture</td>
</tr>
</tbody>
</table>
| Tracker       | OU TEI    
               | OU Enrollment  
               | OU Event     |
Global filters: **Record Status**

Simplify list of status across all domains

Default: all

<table>
<thead>
<tr>
<th></th>
<th>Aggregated</th>
<th>Events</th>
<th>Tracker</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Scheduled</strong></td>
<td></td>
<td></td>
<td>future due date</td>
</tr>
<tr>
<td><strong>Overdue</strong></td>
<td></td>
<td></td>
<td>due date passed</td>
</tr>
<tr>
<td><strong>Open</strong></td>
<td></td>
<td>‘editable’</td>
<td></td>
</tr>
</tbody>
</table>
| **Locked**     | expired, approved, accepted | completed, expired | **EHN**: Expired, completed  
**ERL**: canceled or completed |

UiO: University of Oslo
Global filters: **Sync Status**

Simple selection: before | now | after

Default: All

SMS Sync: only displays if SMS settings are present in app
Global filters: **User ID**

2.32:

User Assignment (events)

Ownership of program ?
Program Filters: **TEI list**

Filters are ‘carry-forward & backwards’ to/ from activities [home] screen → Period, OUs, Status, Sync Status

Two new filters for tracker → Enrolment Date, Incident date → same past / now / future selector
Program Sorting: **TEI list**

+ Filter items: Period, OUs, Status, Sync Status, Enrolment, Incident date
+ ‘Listed’ attributes

ascending/descending order

priority
Program Search: **TE** attributes

Only ‘searchable’ attributes

Forces search before allowing add

Takes into consideration min search criteria
Events: **sorting & grouping**
[in tracker program]

By default, sorted descending:
- Overdue
- Upcoming
- Past

Sort & Group to be rarely used

Set criteria stored locally and used for all TEI in the program
Events: **Sort**

- Event date
- OU event
- Status event
- Sync Status

ascending/ descending order priority
Events: group by

+ Event date
+ OU event
+ Status event
+ Sync Status
+ **Prog Stage**

ascending/descending order

Only 1 grouping
# Summary filters, search, sort and group by What & Where

<table>
<thead>
<tr>
<th></th>
<th>Filters</th>
<th>Search</th>
<th>Sort</th>
<th>Group By</th>
</tr>
</thead>
<tbody>
<tr>
<td>Global</td>
<td>✓</td>
<td>n/a</td>
<td>alpha</td>
<td>n/a</td>
</tr>
<tr>
<td>Aggregated</td>
<td>✓</td>
<td>n/a</td>
<td>?</td>
<td>?</td>
</tr>
<tr>
<td>Simple events</td>
<td>✓</td>
<td>n/a</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>TEI Listing</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Tracked events</td>
<td>n/a</td>
<td>n/a</td>
<td>✓</td>
<td>✓</td>
</tr>
</tbody>
</table>
Our users

Community workers/health staff

Limited exposure to ‘enterprise’ apps

Everyday apps: whatsapp, facebook
Our users

Community workers/health staff

Limited exposure to ‘enterprise’ apps

Everyday apps: whatsapp, facebook

Disconnected
## Usability - making filters, search, sorting and group usable

Storing user setting and defining server settings [under consideration]

<table>
<thead>
<tr>
<th></th>
<th>User level [get deleted at log-off]</th>
<th>System Level 🔄</th>
<th>?</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Filters</strong></td>
<td>last filter settings stored</td>
<td>n/a</td>
<td></td>
</tr>
<tr>
<td><strong>Search</strong></td>
<td>System remember your last search (per program)</td>
<td>n/a</td>
<td></td>
</tr>
<tr>
<td><strong>Sorting &amp; grouping</strong></td>
<td>TEI &amp; Event sorting remembered by prg</td>
<td>Server settings per program Option to enforce them.</td>
<td>User Groups?</td>
</tr>
</tbody>
</table>
Icon Library
How does it work?

only the icon name is synchronized - all icons already exist in the APK

```
{id: 'IpHNAT79Uw',
 name: 'Child Programme',
 propertyX: 'Value'...
 style: {
  color: '#fbc02d',
  icon: 'child_program_positive'
 },
 ...
```

DHIS2 Server

UiO: University of Oslo
Assigning Icons and colors to metadata

Example - options of an option set
Displaying options as images

1. Sections should contain a **SINGLE** data element

**AND**

2. Data Element should be linked to an option set (for which options have been set with icons)
## Where can I use icons today? [2.30+]

<table>
<thead>
<tr>
<th></th>
<th>Assign</th>
<th>Android Rendering</th>
<th>Web Rendering</th>
</tr>
</thead>
<tbody>
<tr>
<td>TrackedEntityType</td>
<td>2.30</td>
<td>soon</td>
<td></td>
</tr>
<tr>
<td>Program</td>
<td>2.30</td>
<td></td>
<td>2.3X</td>
</tr>
<tr>
<td>Program Stage</td>
<td>2.30</td>
<td></td>
<td>2.3X</td>
</tr>
<tr>
<td>DataSet</td>
<td>2.31</td>
<td>soon</td>
<td></td>
</tr>
<tr>
<td>Data Element</td>
<td>2.30</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>TEAttribute</td>
<td>2.30</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Indicator</td>
<td>2.32</td>
<td>soon</td>
<td></td>
</tr>
<tr>
<td>Prg Indicator</td>
<td>2.32</td>
<td>soon</td>
<td></td>
</tr>
<tr>
<td>Option Set</td>
<td>2.30</td>
<td></td>
<td>2.3X</td>
</tr>
</tbody>
</table>
Icon variations

A flat color can be assigned

Outline | Positive | Negative

[Images of hand icons in outline, positive, and negative variations]
Future - upload a picture

images as gif/ jpeg/ png (50k or less - TBD)
Use limited to options/ DE/ Attributes

Pro: your own images
Cons: syncing time & bandwidth - need to download images during metadata sync
How to request new icons

Buried at the bottom of the Android overview page

Suggest concepts and upload sample images

We will ‘normalize’ to ensure consistency of all icons in the collection
## Icon collection

<table>
<thead>
<tr>
<th>ANC</th>
<th>Remove age ranges</th>
<th>people</th>
<th>Add non-caucasian</th>
</tr>
</thead>
<tbody>
<tr>
<td>blood</td>
<td></td>
<td>places</td>
<td></td>
</tr>
<tr>
<td>diagnosis</td>
<td></td>
<td>symptoms</td>
<td></td>
</tr>
<tr>
<td>family planning</td>
<td></td>
<td>transportation</td>
<td></td>
</tr>
<tr>
<td>health areas</td>
<td></td>
<td>treatment</td>
<td></td>
</tr>
<tr>
<td>HIV</td>
<td></td>
<td>? education</td>
<td></td>
</tr>
<tr>
<td>icons</td>
<td></td>
<td>? clinical quality</td>
<td></td>
</tr>
<tr>
<td>malaria</td>
<td></td>
<td>? training</td>
<td></td>
</tr>
<tr>
<td>network</td>
<td></td>
<td>?</td>
<td></td>
</tr>
<tr>
<td>occupation</td>
<td></td>
<td>?</td>
<td></td>
</tr>
</tbody>
</table>
Q & A