

Learner's Guide for Relationships

What is this guide?

This guide contains all exercises and detailed steps to perform them related to the review of ***Relationships*** for the Android Level 1 academy. Please perform each of the exercises when prompted to by your instructors

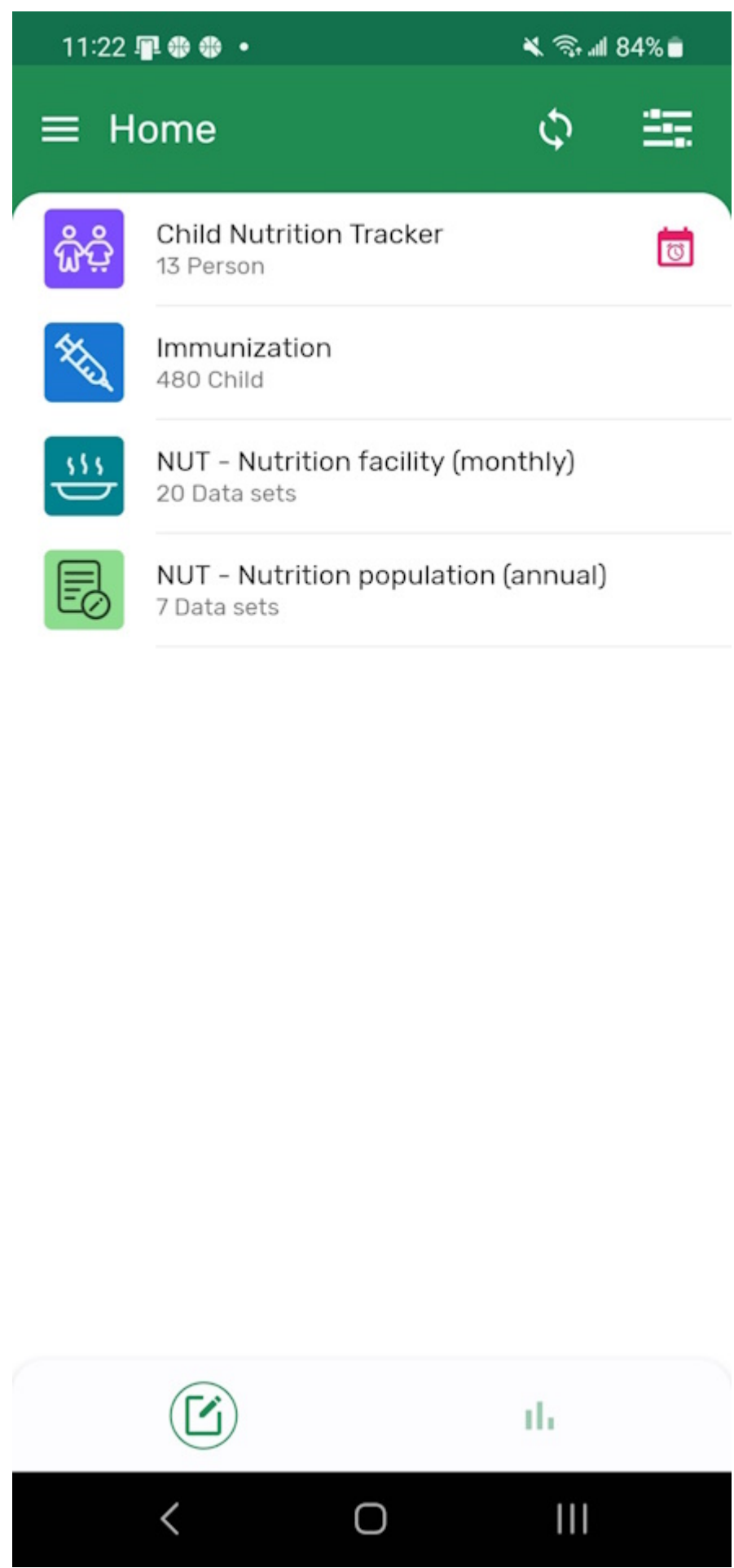
Learning objectives for this session

1. Configure the flag and colour for a DHIS2 instance
2. Demonstrate how to apply colours and icons to data sets and programs
3. Demonstrate how to configure metadata to read QR codes
4. Demonstrate how to configure option sets to display using different rendering types
5. Demonstrate how to configure images

Exercise 1

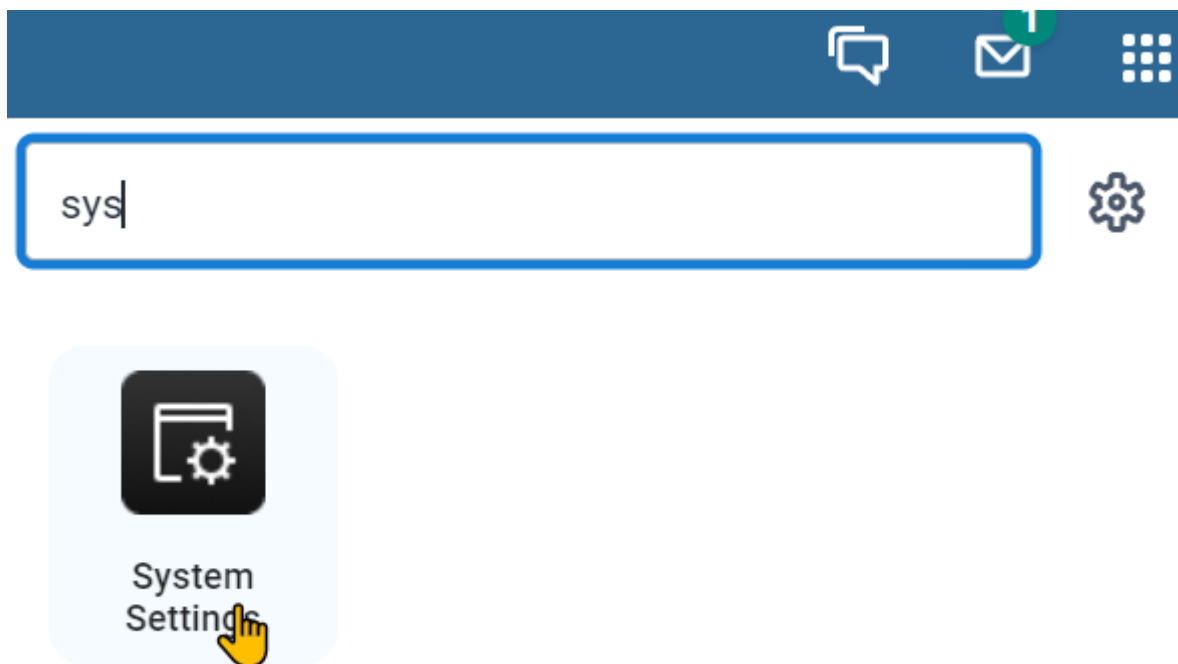
Icons in the Android app

When you first log in, you will see that there are icons and styling applied to android app



System Settings

The color and flag of the app can be set by accessing the system settings



From here, navigate to the appearance tab where you can modify the style and flag of your system.

Style	Light Blue
Start page	Dashboard
<input type="checkbox"/>	Enable light-weight start page
Help page link	https://dhis2.github.io/dhis2-docs/master/en/user/html/dhis2_user_manual_en.html
Flag	Demoland
Interface language	English

If you modify these settings they will be reflected in the android application.

Android Rendering Options

Program Colours

In order to display various options for program colours, we will edit an existing child in the immunization program.




Select the immunization program.

Note that the colour of this program changes to blue, because the program specific color has been set to blue.

You could further demo this by changing over to another dataset or program.

Blue colour for Immunization

11:28




84%

← Immunization

① It is necessary to enter at least 1 attributes to search

Local ID

Enter text 

Child Number

Enter text


First Name

Enter text

Last name

Enter text

Date of Birth

Choose date 

Sex


☐ Male ☐ Female

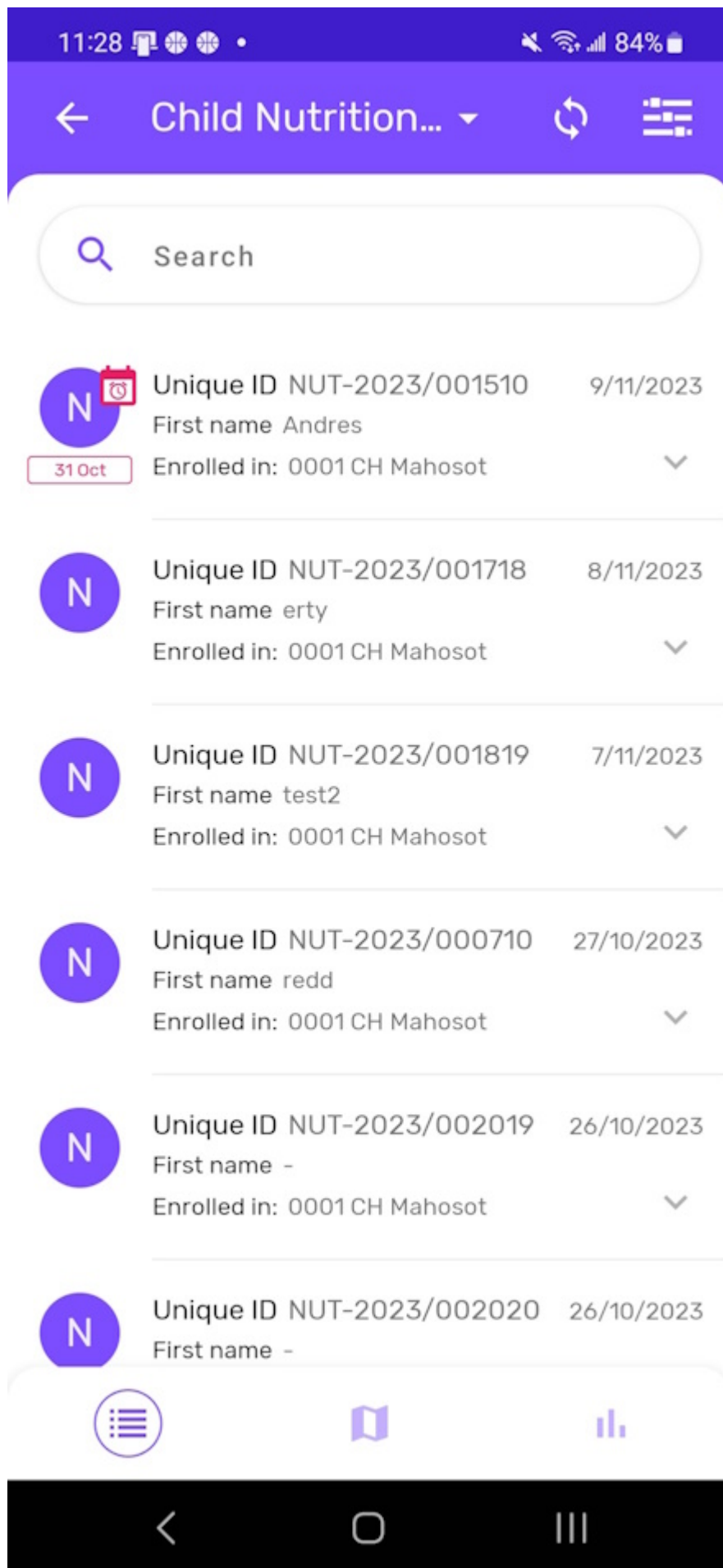
Village/Domicile

Enter text

Family Address

Enter long text

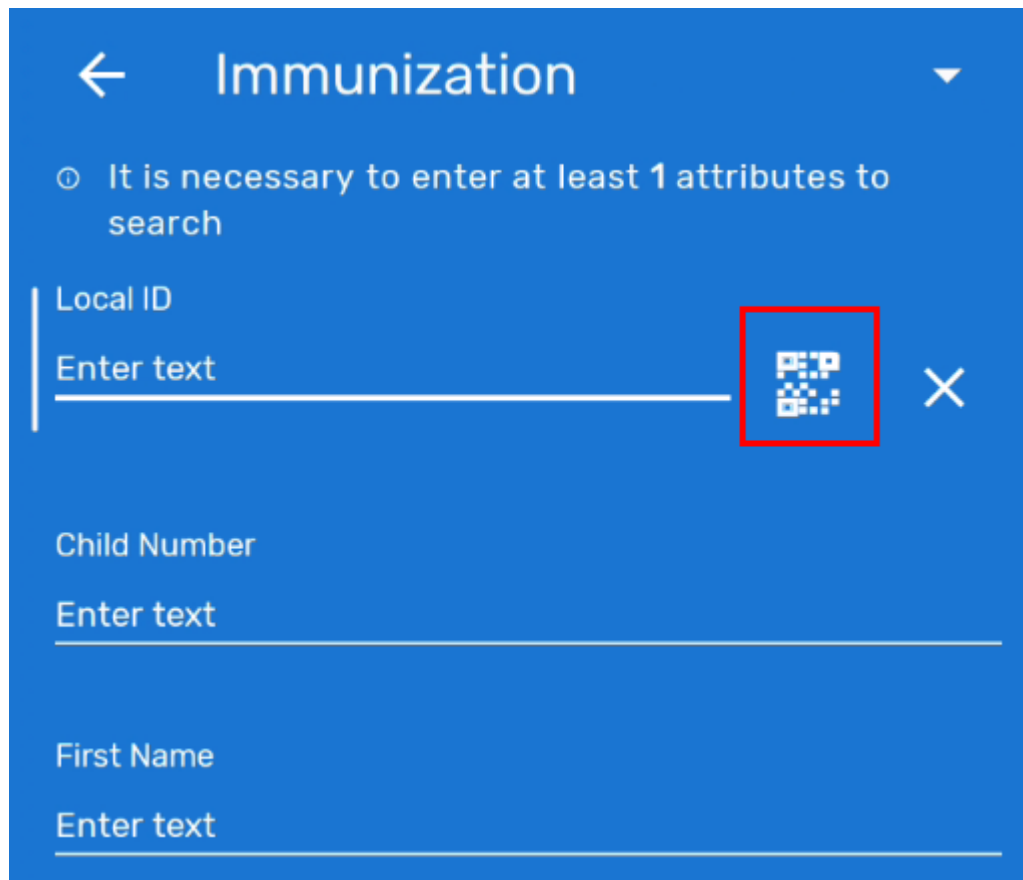




We can review the QR code reader functionality by trying to search for a child in the immunization program.

The Local ID is set to scan QR codes

Select the QR code button next to the local ID

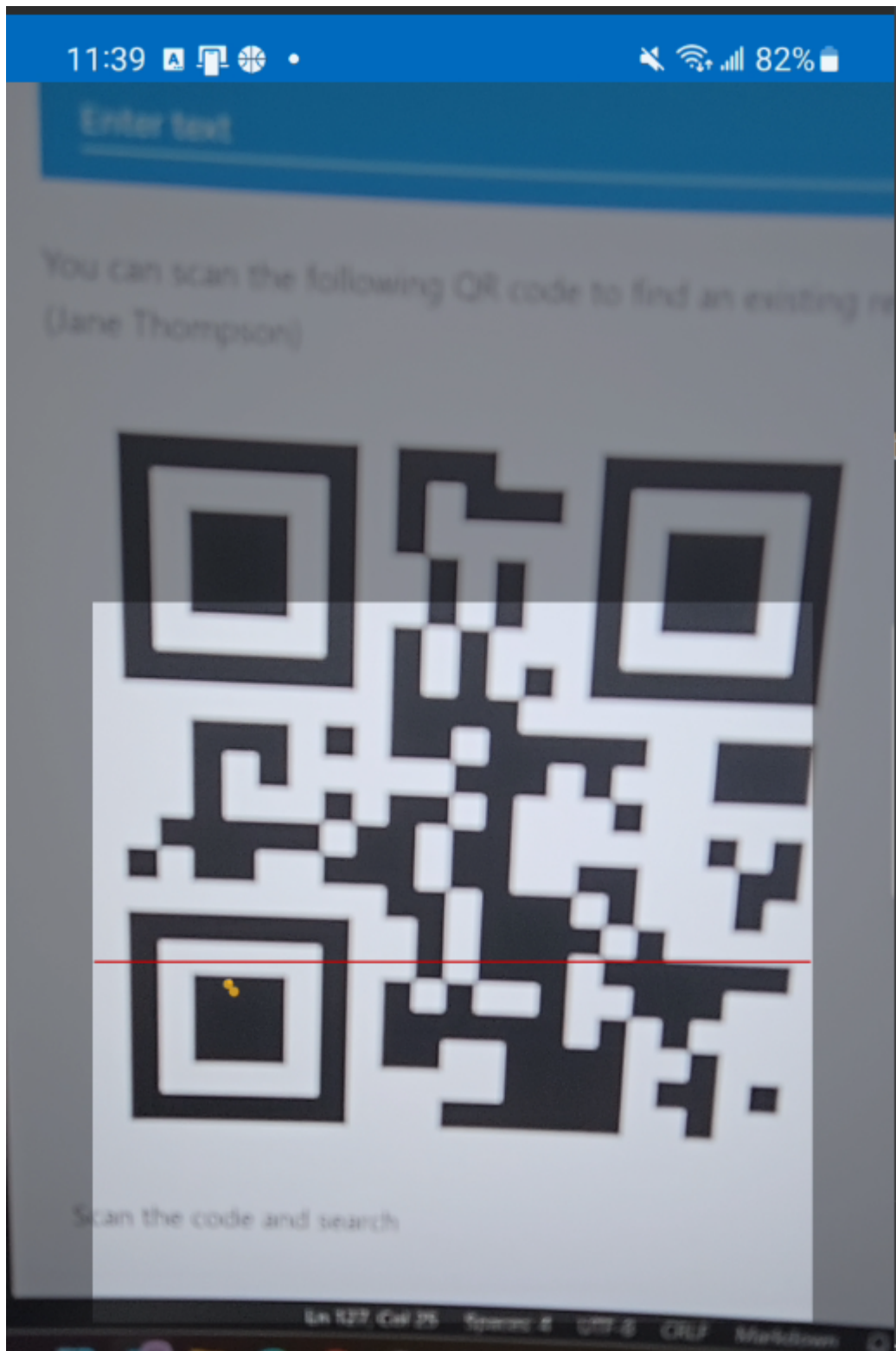


The screenshot shows the 'Immunization' app interface. At the top, there is a back arrow and the title 'Immunization'. Below the title, a message states: 'It is necessary to enter at least 1 attributes to search'. The form contains three input fields: 'Local ID', 'Child Number', and 'First Name'. Each field has a placeholder text 'Enter text'. To the right of the 'Local ID' input field, there is a QR code scanner icon (a square with a grid pattern) which is highlighted by a red box. Next to the scanner icon is a close button (an 'X' symbol).

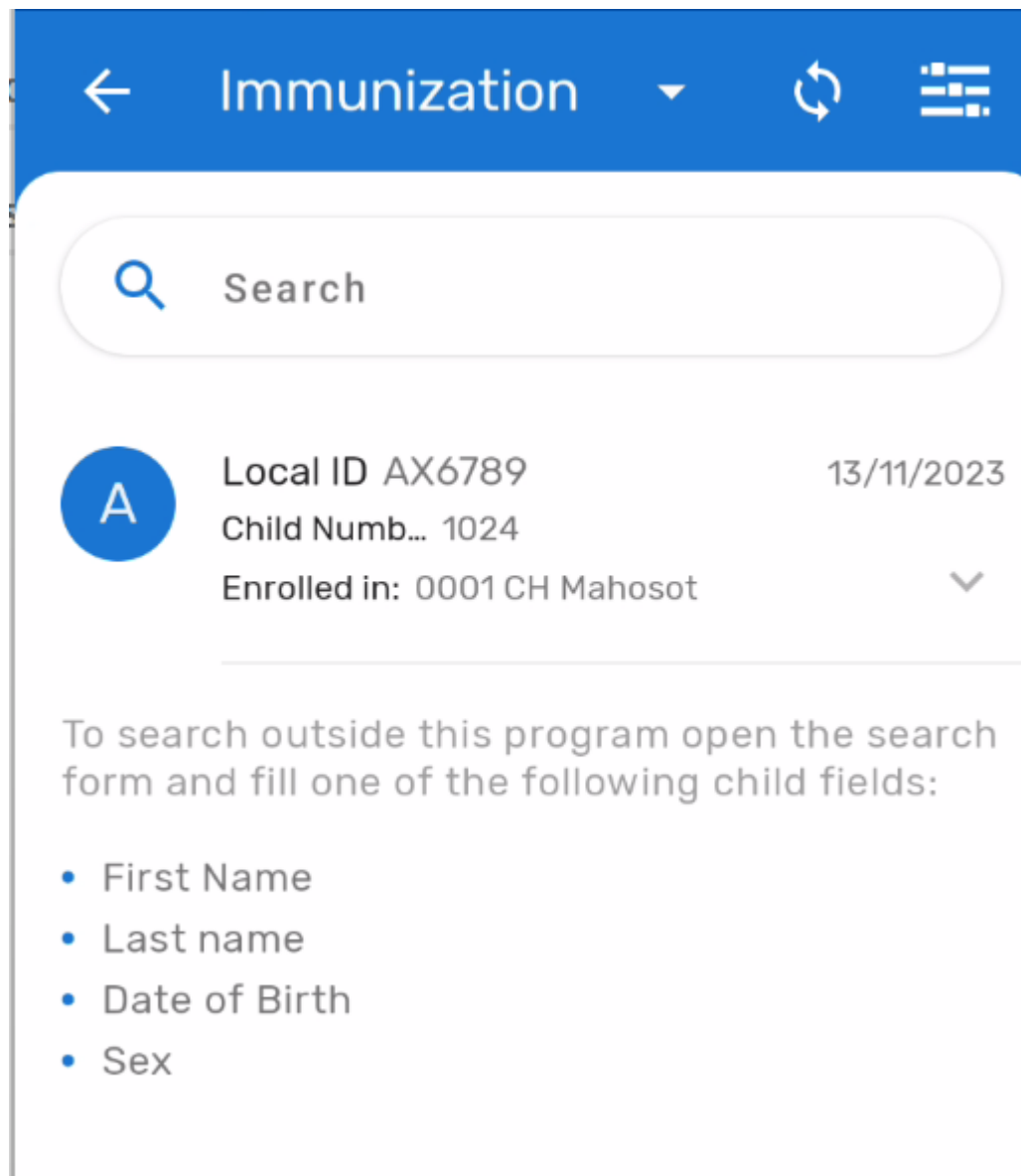


You can scan the following QR code to find an existing record (Jane Thompson)





Scan the code, it will populate the LOCAL ID field. You can then search for the person



The results will show their record because you are using a unique ID


 Immunization  

 Search



Local ID AX6789

Child Numb... 1024

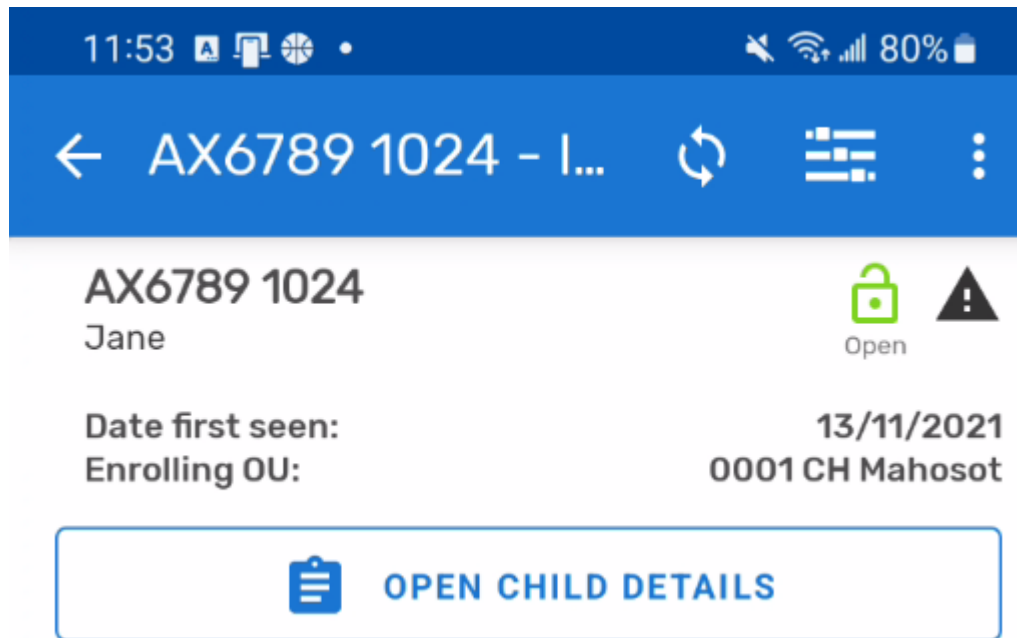
Enrolled in: 0001 CH Mahosot 

To search outside this program open the search form and fill one of the following child fields:

- First Name
- Last name
- Date of Birth
- Sex

Date Picker

Open the record and edit their details by selecting "Open Child Details"



Select the field "date first seen"


Here you can demo the different date pickers by selecting "change calendar view"

The screenshot shows a mobile application interface. At the top, a dark blue header contains a back arrow, the text 'AX6789 1024', and 'Jane'. Below this is a section titled '1 Enrollment data' with a '2/4' indicator and an upward arrow. The main content area has a form with a label 'Date first seen *' and a text input field containing '13/11/2021'. To the right of the input is a calendar icon and a close 'X' button. A white date picker modal is open in the center, titled 'Date first seen'. It displays a calendar grid with the following dates: Oct 12 2020, Nov 13 2021, and Dec 14 2022. Below the grid is a 'Change calendar view' option with a calendar icon. At the bottom of the modal are 'CLEAR' and 'ACCEPT' buttons. The background is dimmed, showing other form fields like 'Enrollment', '0001 C', 'Coordin', 'Latitud', 'Enrollm', and 'Latitud'.


Option set rendering

If you select the "Attributes - Child" section you will be able to demonstrate examples of different option set rendering types. In addition to the default setting, you will be able to see examples of both

horizontal radio buttons

 **AX6789 1024**
Jane

2

Attributes - Child 9/14 

First Name



Jane

Last name

Thompson

Date of Birth *


13/11/2021


Sex

☐ Male


☒ Female



and vertical radio buttons

 **AX6789 1024**
Jane

2

Attributes - Child 9/14 

Family Address

Enter long text

Attendant at birth

☐ Layperson

☒ Midwife


☐ Not stated

☐ Nurse

☐ Nurse/Midwife

☐ Other paramedical personnel

☐ Physician



Images

If you can continue scrolling, you will see a placeholder in which you can add an image.

You can proceed to add an image (a good idea is to download some type of randomized icon or image to use rather than show your own photos from your phone) and display the signature fields.

AX6789 1024
Jane

2

Attributes - Child

10/14

^

Attendant at birth

☐ Layperson

☒ Midwife

☐ Not stated

☐ Nurse

☐ Nurse/Midwife

☐ Other paramedical personnel

☐ Physician

X

Child Photo

STOP - End Exercise 1

Configuration Guidance

Data Sets and Programs Icons and Colours

You are able to configure the icons and colours of data sets and programs within the maintenance app.

For datasets you can do this in dataset maintenance.

Name (*)

NUT - Nutrition facility (monthly)

Short name (*)

Nutrition facility (monthly)

Code

NUTR_AGG_FAC_MONTHLY

Color

#00838F

UNSET COLOR

Icon



CHANGE ICON

REMOVE ICON

For programs you can do this within the "Program details" tab of program maintenance

Name (*)

Immunization

Short name (*)

Immunization

Code

Color

#1976D2

UNSET COLOR

Icon



CHANGE ICON

REMOVE ICON

QR Codes

In order to configure fields to read QR or bar codes, we have to start with the value type assigned to our TEA or DE.

TEAs or DEs must be set the the value type of "TEXT" or you will not be able to assign them a render type of QR or Bar code in your program

← Tracked entity attribute ?

Name (*)

Local ID

Short name (*)

Local ID

Form name

Code

Description

Field mask

Option set

Value type (*)

Text

If you check the Local ID TEA value type it will be set to text.

Next, we have to navigate to our tracker program in maintenance. The example we are using is a TEA, so select the Immunization program and navigate to the "Attributes" section of the program. Here we can see the list of attributes assigned to the along with the render type for both mobile and desktop.

← Tracker Program ⓘ

Immunization

1 Program details

2 Enrollment details

3 Attributes

4 Program stages

5 Access

6 Notification

1 Assign attributes

Program tracked entity attributes

Search available/selected program tracked entity attributes

Birth weight (in kg)

GEN - Date of birth

GEN - Date of birth is estimated

GEN - Family name

GEN - First Name

GEN - Patient type

GEN - Sex

NUTR - Affiliation type

NUTR - CVA beneficiary

NUTR - Current district

NUTR - Date of birth (caregiver)

Local ID

Child Number

First Name

Last name

Date of Birth

Sex

Mother/Caregiver's first name

Mother/Caregiver's last name

Mother/Caregiver's contact number

Village/Domicile

Family Address

→

←

↑

↓

ASSIGN ALL 27 →

← REMOVE ALL 14

Name	Display in list	Mandatory	Date in future	Searchable	Mobile render type	Desktop render type
Local ID	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>	Qr code	Default
Child Number	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	Default	Default

Local ID is the first field and you can see the rendering type is set to Qr code. You can select the dropdown to see other options that are available here. These options apply to any data value that is text.


If you wanted to do this for a data element, you can do this within the "Assign data elements" section within a program stage.

Option Sets

There are two tracked entity attributes that also have option sets, Sex and Attendant at birth.

These two TEAs with option sets have been set to render within this screen as well.

18 / 20

Sex	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<div><div>Default</div><div>Dropdown </div><div>Vertical radiobuttons</div><div>Horizontal radiobuttons</div><div>Vertical checkboxes</div><div>Horizontal checkboxes</div><div>Shared header radiobuttons</div><div>Icons as buttons</div><div>Spinner</div><div>Icon</div></div>
Mother/Caregiver'	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Mother/Caregiver'	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Mother/Caregiver'	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Village/Domicile	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Family Address	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Attendant at birth	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Vertic... <div></div>
Picture	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Default <div></div>
Parent Signature	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Canvas <div></div>

There are a number of options here. When selected from this screen, or for a data element within a program stage, they will render accordingly on the android device.

The default setting for an option set is a dropdown list.

Images

You can set pictures via the TEA or DE value type.

←

Tracked entity attribute

?

Name (*)

Picture

Short name (*)

Picture

Form name

Child Photo

Code

code

Description

Field mask

Option set

Value type (*)
Image

Aggregation type (*)
None

This will allow you to upload images via either android or web.