

Mobile Data Collection

**Asia Pacific Surge Training:
Emergency WASH**

21 November 2022

Learning objectives

- Learn about the benefits of mobile data collection over the traditional paper questionnaire,
- To know the two tools used KoBoToolbox and KoBoCollect,
- To develop a questionnaire under KoBoToolbox,
- To transfer and analyze the questionnaires made under KoBoToolbox,

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Introduction

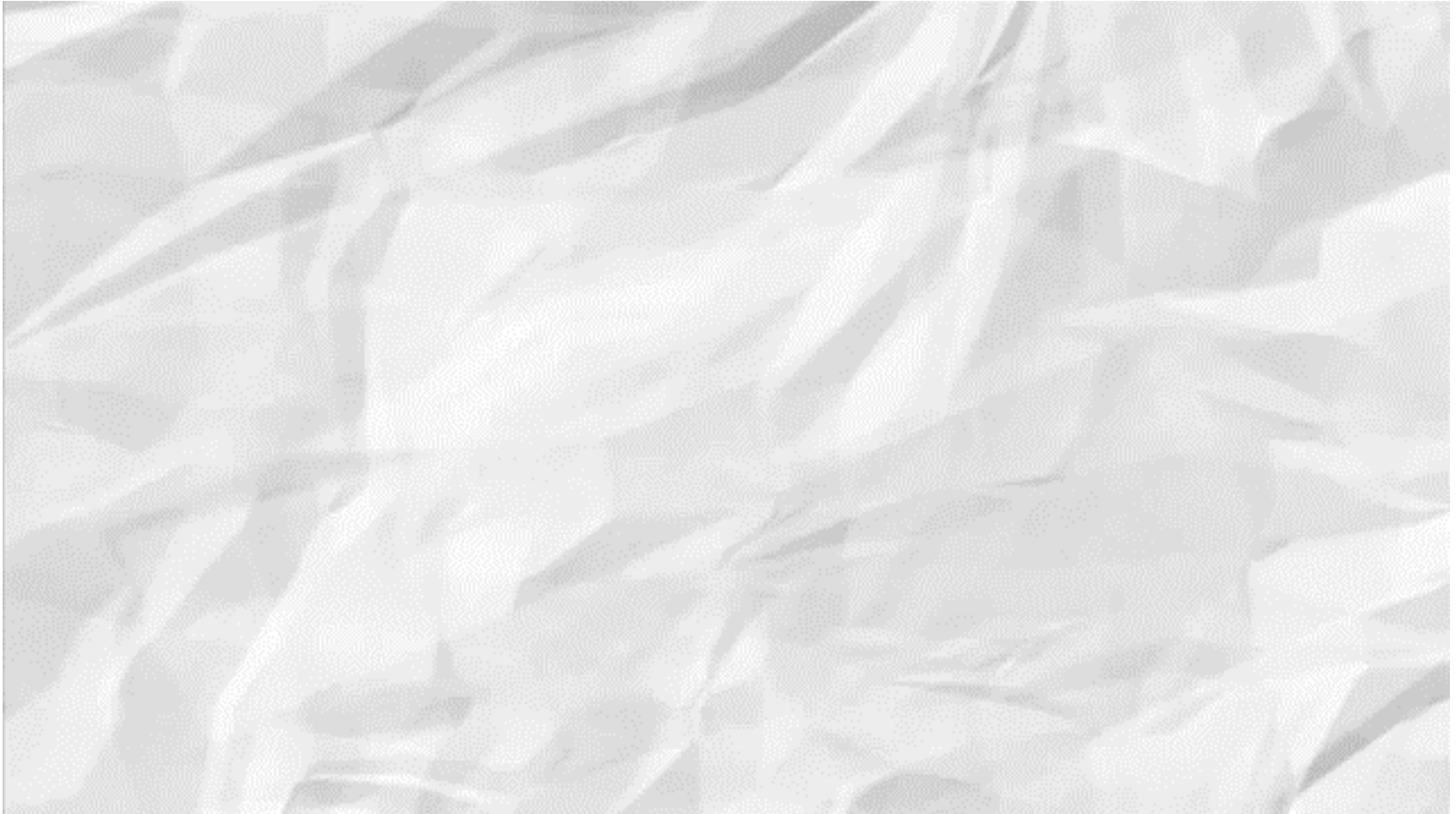


Paper vs Tablet Face to face Survey

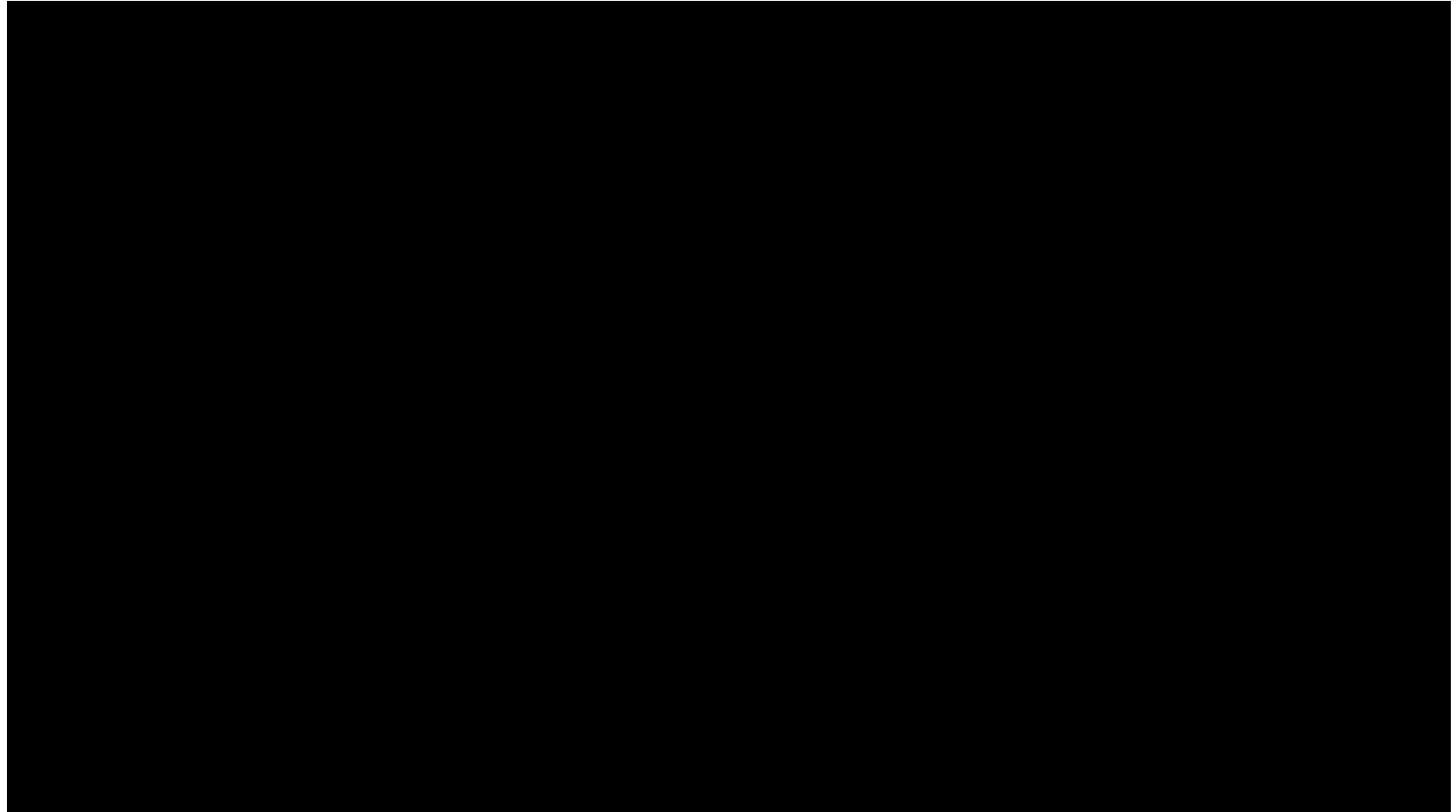


Can you identify the positives and negatives of each method

Introduction to mobile data solutions



A quick tour of KoBoToolbox



Paper vs Tablet Face to face Survey



Would you like to give more positives and negatives of each method?

Paper vs Tablet for Mobile Data Collection

Main elements to remember

- Fast to complete and compile
- Lower cost
- Stronger and more accurate data (on-site data entry, limited data cleaning, skip logic, distance access...)
- Motivating, rewarding for teams

New features:

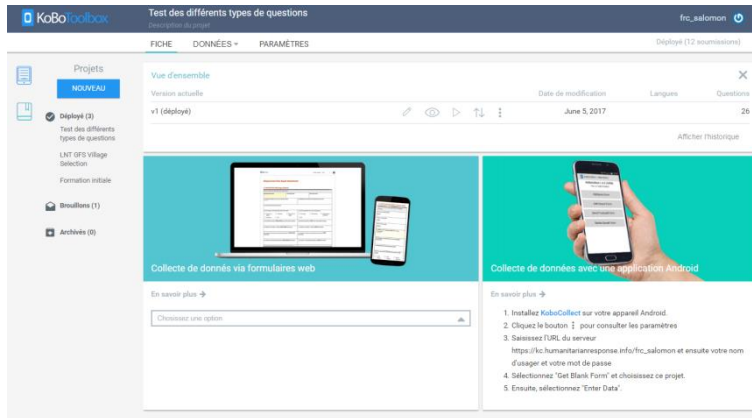
- Use of GPS (point, plot, surface)
- Multimedia data (photo, video, audio)
- Bar code reader, QR code
- Best tools for tracking (day, time, location)

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Steps for the Mobile Data Collection



2. Complementary tools available



Online (KooTollbox)



KoBoCollect

KoBoToolBox Tools

PEGI 3

⚠ You don't have any devices.

Offline
(KoBoCollect)

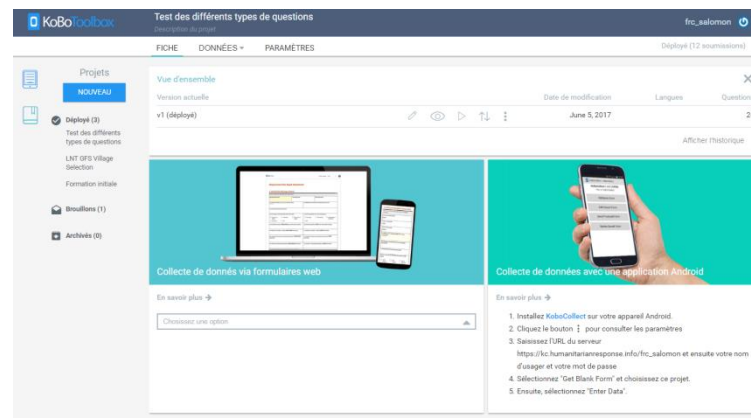
What are the roles of each tool?

Creation of the questionnaire on *KoBoToolbox*

Create the questionnaire in KoboToolbox



Online



<https://kobo.humanitarianresponse.info>

User: wash_apro_training

Password: washisthebest

Import and pass questionnaire on device

Import questionnaire on device

<https://kc.humanitarianresponse.info>

User: wash_apro_training

Password: washisthebest

Online



KoBoCollect

KoboToolBox Tools

PEGI 3

⚠ You don't have any devices.

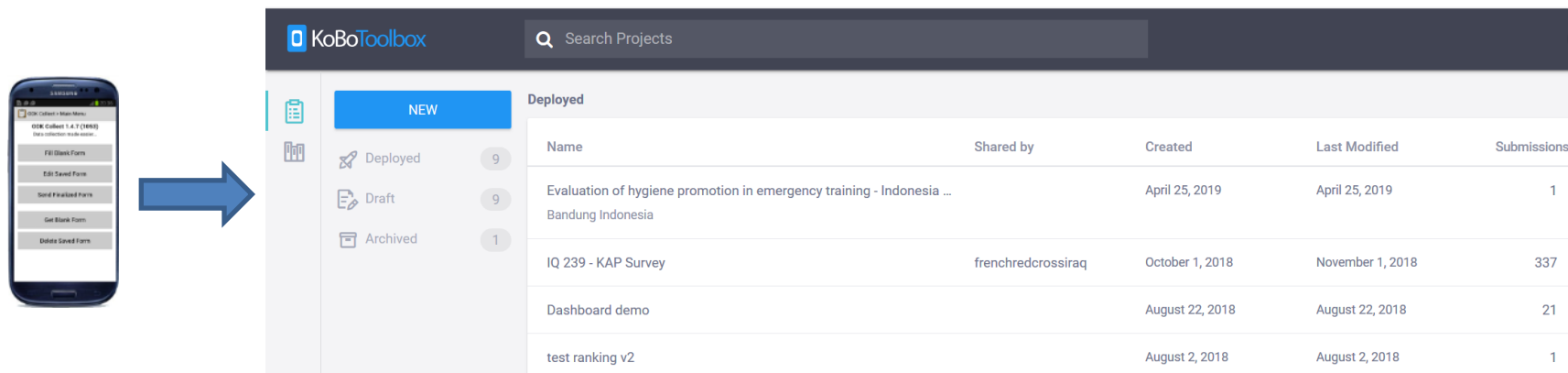
Collection of data

Online-Offline



Export and consolidation of all questionnaires on KoBoToolbox

Move the questionnaire to the site (KoBoToolbox)



The diagram illustrates the process of moving a questionnaire from a mobile device to the KoBoToolbox web platform. On the left, a smartphone displays the KoBoToolbox app interface with options like 'Fill Blank Form', 'Edit Saved Form', 'Send Finalized Form', 'Get Blank Form', and 'Delete Saved Form'. A large blue arrow points from the phone to the web interface on the right.

The web interface shows the 'KoBoToolbox' logo and a 'Search Projects' bar. Below this, there's a 'NEW' button and a list of project statuses: 'Deployed' (9), 'Draft' (9), and 'Archived' (1). The 'Deployed' section is expanded, showing a table of projects.

Name	Shared by	Created	Last Modified	Submissions
Evaluation of hygiene promotion in emergency training - Indonesia ... Bandung Indonesia		April 25, 2019	April 25, 2019	1
IQ 239 - KAP Survey	frenchredcrossiraq	October 1, 2018	November 1, 2018	337
Dashboard demo		August 22, 2018	August 22, 2018	21
test ranking v2		August 2, 2018	August 2, 2018	1

Online

Aggregation and consolidation is done automatically


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Questionnaire creation on KoboToolbox



Metadata

Find on Layout and Settings

 Layout & Settings

☒ start time

☒ end time

☒ today

☒ device id

☒ username

☐ sim serial

☐ subscriber id

☐ phone number

Different kind of questions

+ ADD QUESTION

Select One

1.0 Decimal

Point

Line

Area

1+1 Calculate

External XML

Select Many

Date

Photo

Note

Rating

Hidden

abc Text

Time

Audio

Barcode / QR Code

Question Matrix

File

123 Number

Date & time

Video

Acknowledge

Ranking

1..1 Range

Restrictions

GPS



- Must be outside
- With phone network < 1min
- Without phone network, can be 5-10 min the first time

Barcode



Barcode / QR Code



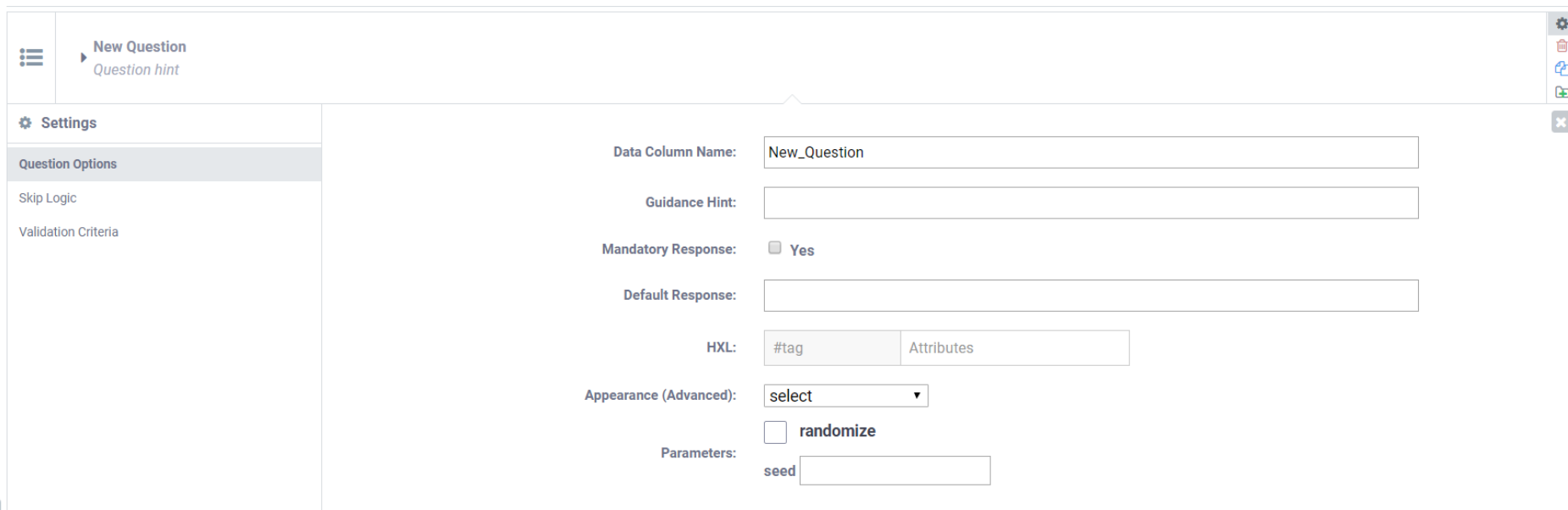
Barcode Scanner

ZXing Team Shopping

PEGI 3

 You don't have any devices.

Settings of questions

A screenshot of the KoboToolbox 'Settings of questions' interface. The interface has a top bar with a hamburger menu icon, a 'New Question' button, and a 'Question hint' link. Below this is a sidebar with a 'Settings' section containing 'Question Options', 'Skip Logic', and 'Validation Criteria'. The main area displays various settings for a question: 'Data Column Name' is set to 'New_Question'; 'Guidance Hint' is an empty text box; 'Mandatory Response' is set to 'Yes' with a checked checkbox; 'Default Response' is an empty text box; 'HXL' is set to '#tag' with an 'Attributes' button; 'Appearance (Advanced)' is set to 'select' with a dropdown arrow; there is a 'randomize' checkbox which is unchecked; and 'Parameters' includes a 'seed' text box.

Settings

Question Options

Skip Logic

Validation Criteria

Data Column Name: New_Question

Guidance Hint:

Mandatory Response: ☒ Yes

Default Response:

HXL: #tag Attributes

Appearance (Advanced): select ▼

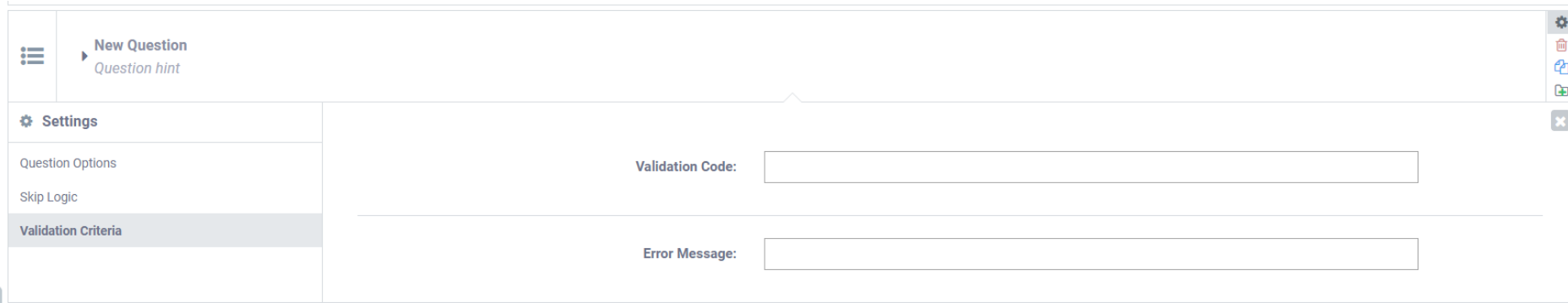
☐ randomize

Parameters: seed

[Using the Question Options — KoboToolbox documentation](#)

[Adding Skip Logic — KoboToolbox documentation](#)

Settings of questions

A screenshot of the KoboToolbox 'New Question' settings interface. The interface has a light gray header bar with a hamburger menu icon on the left, the text 'New Question' and 'Question hint' in the center, and a settings gear icon on the right. Below the header, there is a sidebar on the left with a 'Settings' section containing three options: 'Question Options', 'Skip Logic', and 'Validation Criteria' (which is highlighted). The main area on the right has two input fields: 'Validation Code:' and 'Error Message:'. A small plus icon is visible in the bottom left corner of the sidebar area.

Settings

Question Options

Skip Logic

Validation Criteria

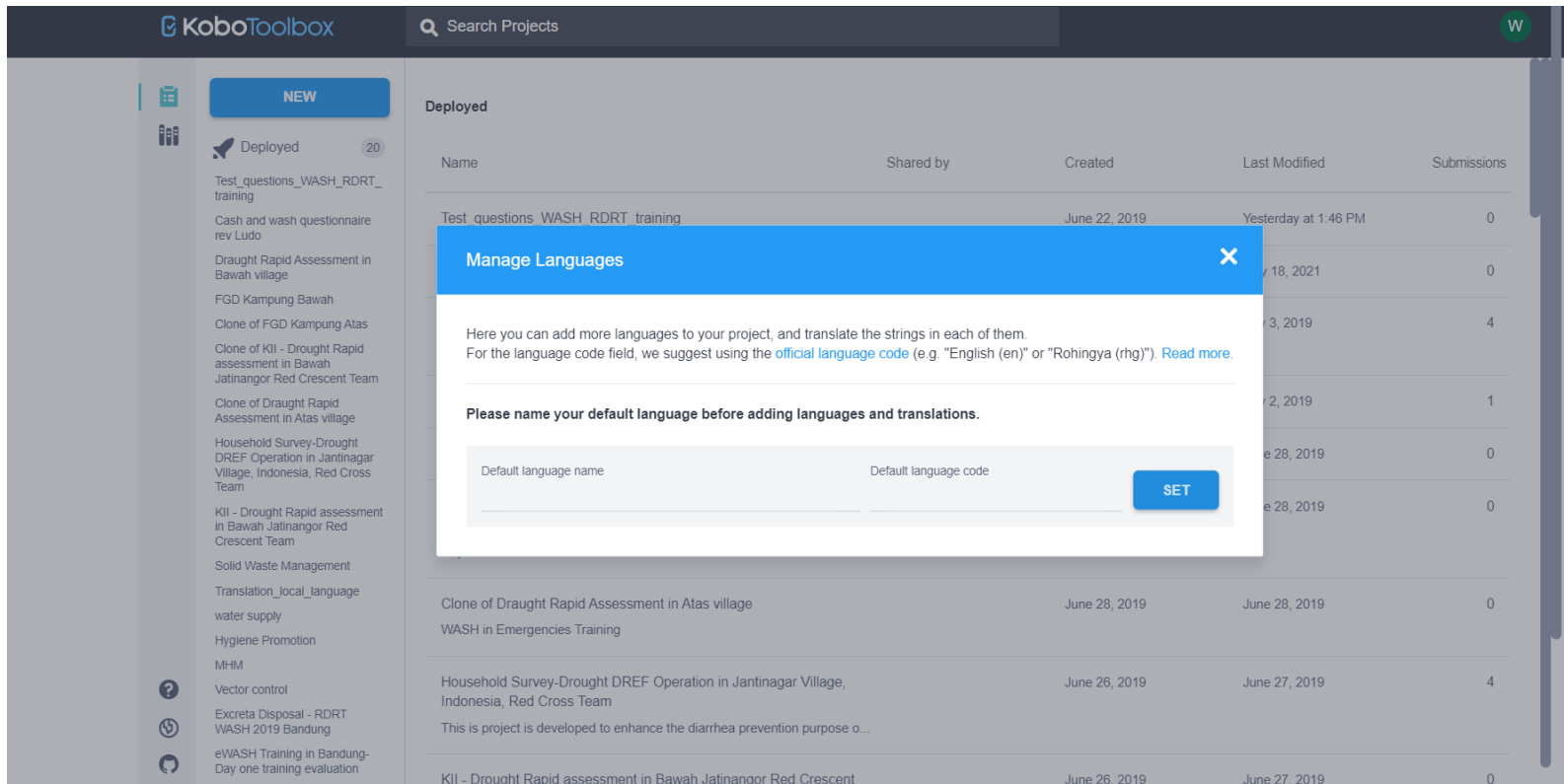
Validation Code:

Error Message:

[Limiting Responses with Validation Criteria
— KoboToolbox documentation](#)

Use your local language

It's easy to add multiple languages to your forms



The screenshot shows the KoboToolbox web interface. On the left is a sidebar with a 'NEW' button and a list of deployed projects. The main area displays a table of 'Deployed' projects. A 'Manage Languages' dialog box is open in the center, providing instructions on how to add and name languages for a project.

Manage Languages

Here you can add more languages to your project, and translate the strings in each of them.
For the language code field, we suggest using the [official language code](#) (e.g. "English (en)" or "Rohingya (rhg)"). [Read more.](#)

Please name your default language before adding languages and translations.

Default language name	Default language code
<input type="text"/>	<input type="text"/>

SET

Name	Shared by	Created	Last Modified	Submissions
Test_questions_WASH_RDRT_training		June 22, 2019	Yesterday at 1:46 PM	0
Cash and wash questionnaire rev Ludo			7/18, 2021	0
Draught Rapid Assessment in Bawah village			7/3, 2019	4
FGD Kampung Bawah			7/2, 2019	1
Clone of FGD Kampung Atas			7/28, 2019	0
Clone of KII - Drought Rapid assessment in Bawah Jatinangor Red Crescent Team			7/28, 2019	0
Clone of Draught Rapid Assessment in Atas village				
Household Survey-Drought DREF Operation in Jatinagar Village, Indonesia, Red Cross Team				
KII - Drought Rapid assessment in Bawah Jatinangor Red Crescent Team				
Solid Waste Management				
Translation_local_language water supply				
Hygiene Promotion				
MHM				
Vector control				
Excreta Disposal - RDRT WASH 2019 Bandung				
eWASH Training in Bandung- Day one training evaluation				
Clone of Draught Rapid Assessment in Atas village		June 28, 2019	June 28, 2019	0
WASH in Emergencies Training				
Household Survey-Drought DREF Operation in Jatinagar Village, Indonesia, Red Cross Team		June 26, 2019	June 27, 2019	4
This is project is developed to enhance the diarrhea prevention purpose o...				
KII - Drought Rapid assessment in Bawah Jatinangor Red Crescent		June 26, 2019	June 27, 2019	0

[Adding Another Language to your XLSForm — KoboToolbox documentation](#)

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Data collection on device

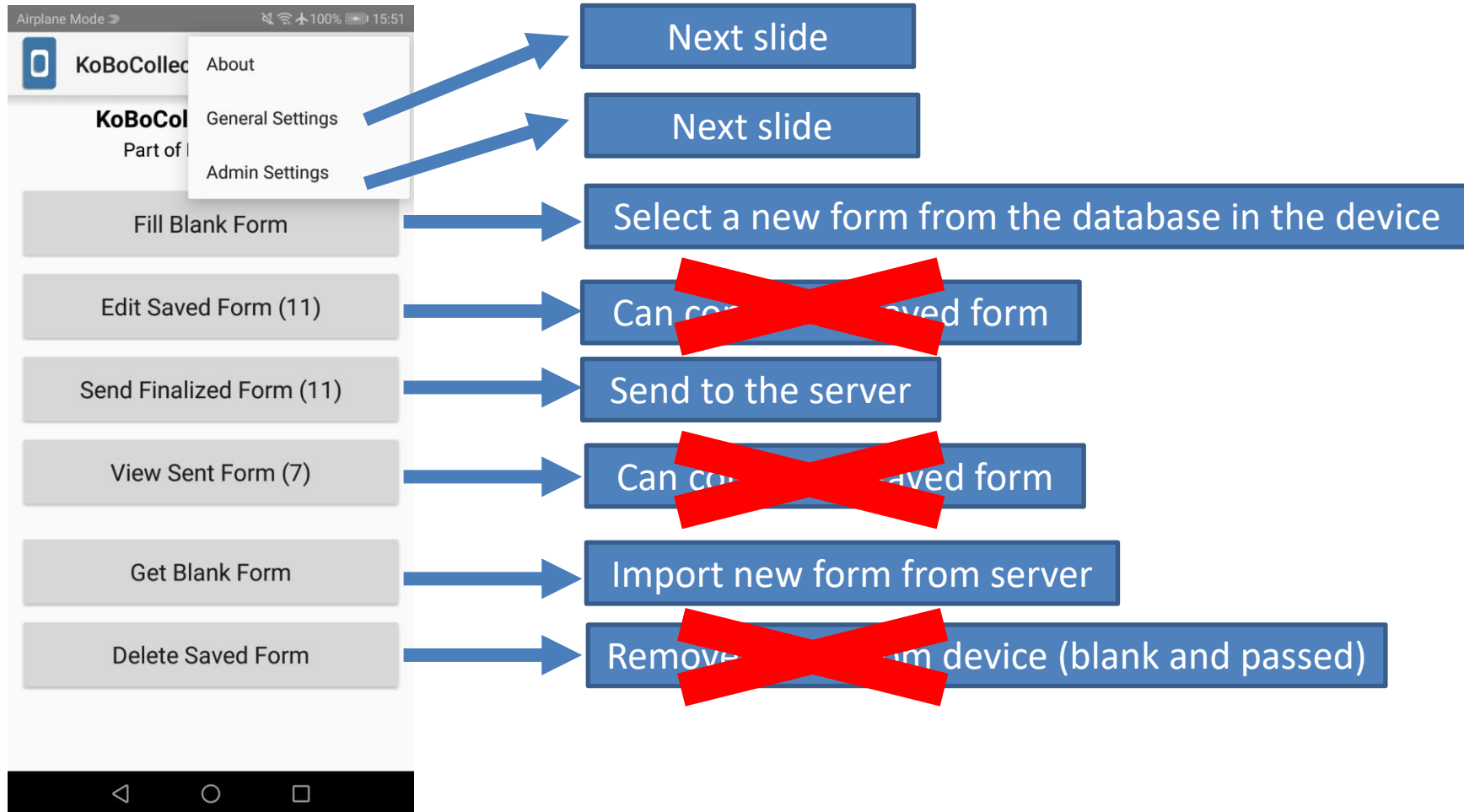


KoBoCollect

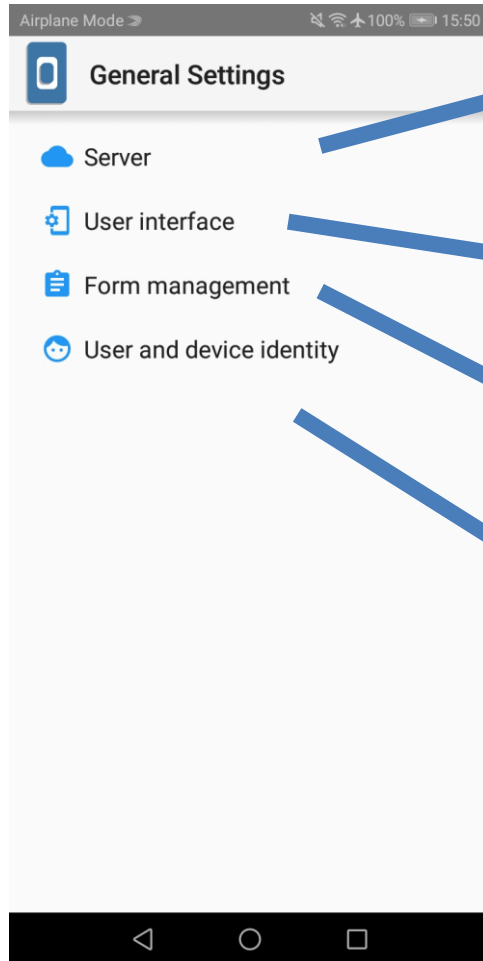
KoboToolBox Tools

 PEGI 3

Use of KoboCollect app on the device (1)



Use of KoboCollect app on the device (2)

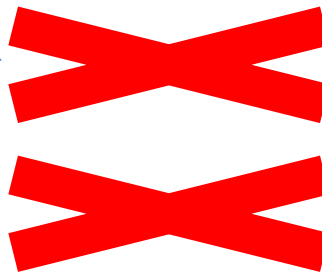


<https://kc.humanitarianresponse.info>

User: wash_apro_training

Password: washisthebest

Preferences



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Let's practice

Pass a questionnaire (per pair)

Objective:

- Install the KoboCollect App on your android phone
- Set up the account in the App

<https://kc.humanitarianresponse.info>

User: wash_apro_training

Pwd: washisthebest

- Import the questionnaire
Test_questions_WASH_RDRT_training
- Group by pair and pass the questionnaire to the other
- When done submit the questionnaire to KoboToolbox

Questionnaire preparation (8 groups)

Each group have to prepare a questionnaire (for a household) with a maximum of 10 questions about the following topic:

- Hygiene promotion (excluding MHM)
- Menstrual Hygiene Management
- Water supply
- Household water treatment and storage
- Excreta management
- Vector control
- Solid waste management
- Institutional WASH

You should be ready to use the different kinds of question i.e. not only question with yes/no answers