KoboToolBox

Hands on training May 24, 2022

What is KoBoToolbox ?

- Kobo Toolbox is a free open-source suite of tools for field data collection.
- It allows user design complex forms, deploy and download submitted data.
- Interactively easy to build/design online form
- Compatible with pre-designed XLSForm

Main features

- Form builder
- Question library
- Android or browser-based data collection
- Data submission
- Data management
- Data download (xls, csv, json and Kml)

Get Started

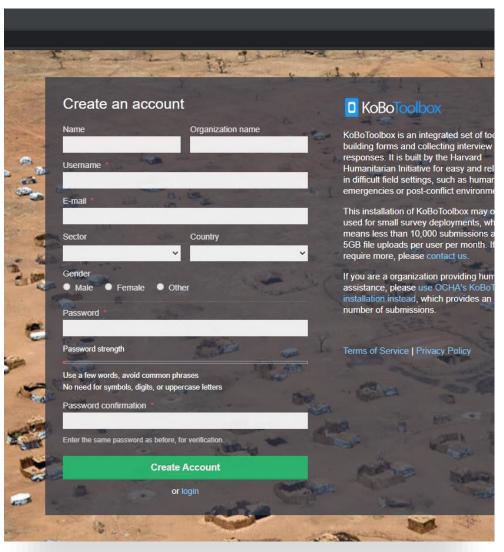
- To upload or create survey form on Kobo Toolbox you will need to have a Kobo account.
- Two types of account can be created
 - 1. "Humanitarian Organization" account or
 - 2."Researcher, Aid Worker, and Everyone Else" account

To create an account, go to <mark>https://kf.kobotoolbox.org/accounts/register/#/</mark> Click on create account, and then enter the necessary details to create the account.

If the account has been created successfully, the account creation page produces instructions on what to do next.

Click the activation link in the email sent to your email address.

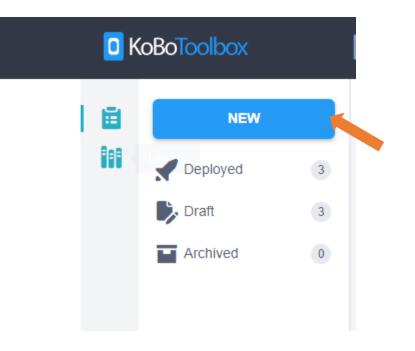
Once the activation link is clicked, a new web page appears showing the kobo toolbox interface necessary to create new projects.



Form design

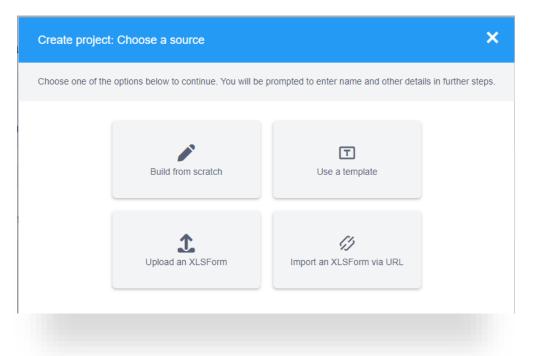
 KoBoToolbox has an intuitive form designer

• To create a new survey form, click on "New" at the top.



Four form options to create a project

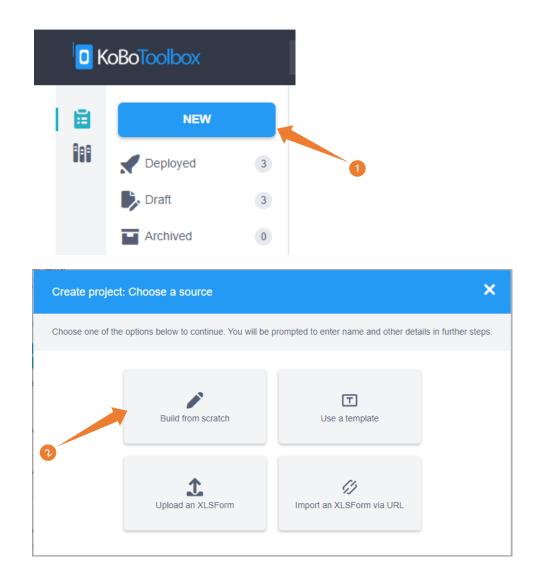
- "Build from Scratch"- this option lets you use the interactive designer;
 - you can create your own survey from scratch.



This training mainly focuses on upload xlsForm option and briefly using interactive designer

Create a survey: "Build from scratch"

 Click on "New" (1) to open a 'Create project' dialog box from which select "Build from scratch" (2).

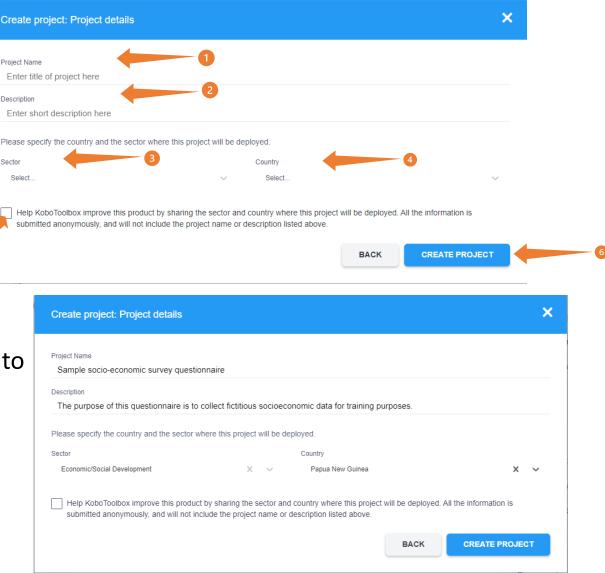


Write appropriate **project name** (1) and

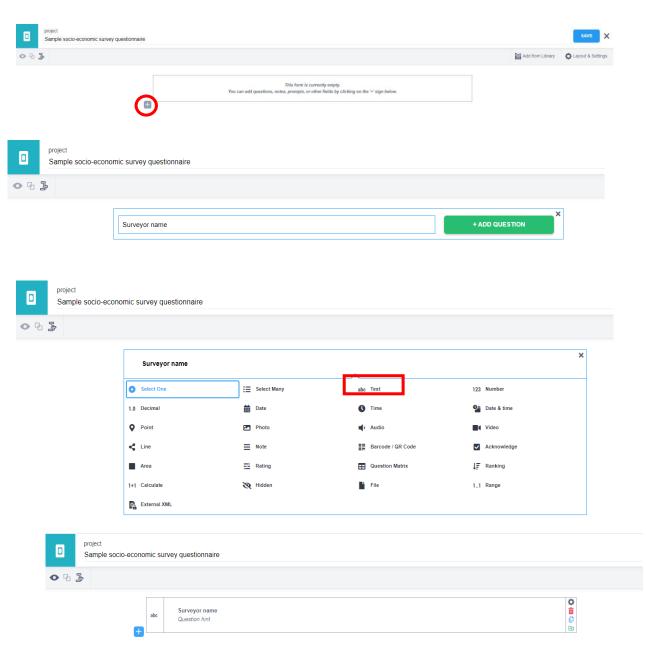
short **description** (2) of the project.

Specify the **sector** (3) and **country** (4) of the project.

- 1. Project Name: "Sample socio-economic survey questionnaire"
- 2. Description: "The purpose of this questionnaire is to collect fictitious socioeconomic data for training purposes."
- 3. Sector: select Economic/Social Development
- 4. Country: PNG
- 5. Check/Uncheck: In accordance with the data collection protocol and privacy policies.

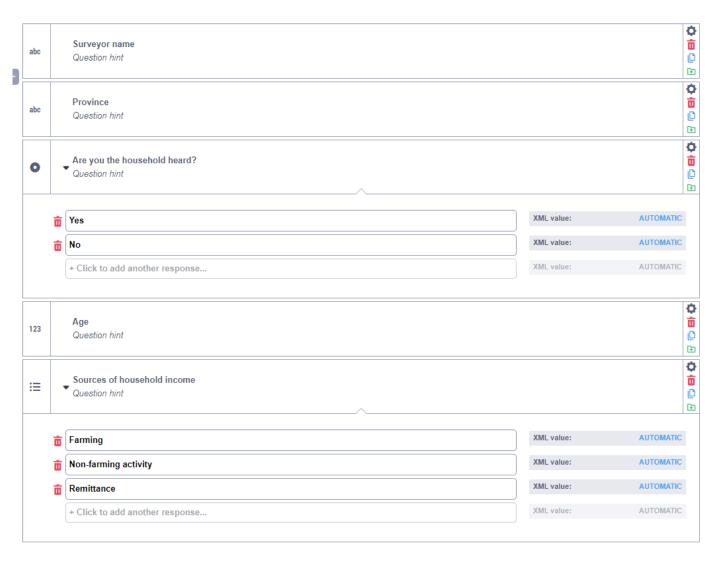


- Add your first question by clicking the + button.
- Write the first question as "Surveyor name"
- Then click Add Question and select appropriate data type to represent the response.
- In this case select Text as a response data type.

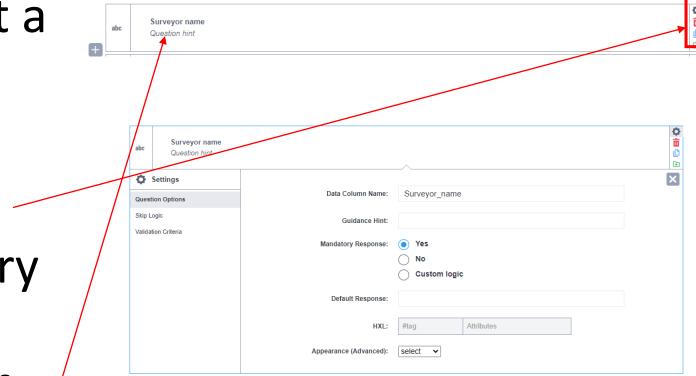


Question type	Icon	Answer input				
integer	123	Integer (i.e., whole number) input.				
decimal	1.0	Decimal input.				
range	11	Range input (including rating).				
text	abc	Free text response.				
select_one [options]	0	Multiple choice question; only one answer can be selected.				
select_multiple [options]	≔	Multiple choice question; multiple answers can be selected.				
select_one_from_file [file]	0	Multiple choice from file; only one answer can be selected.				
select_multiple_from_file [file]	≔	Multiple choice from file; multiple answers can be selected.				
rank [options]	n/a	Rank question; order a list.				
note	≡	Display a note on the screen, takes no input. Shorthand for type=text with readonly=true.				
geopoint	0	Collect a single GPS coordinate.				
geotrace <		Record a line of two or more GPS coordinates.				
geoshape		Record a polygon of multiple GPS coordinates; the last point is the same as the first point.				
date	曲	Date input.				
time	0	Time input.				
dateTime	9 -	Accepts a date and a time input.				
image		Take a picture or upload an image file.				
audio	•	Take an audio recording or upload an audio file.				
background-audio	Ξ.	Audio is recorded in the background while filling the form.				
video		Take a video recording or upload a video file.				
file		Generic file input (txt, pdf, xls, xlsx, doc, docx, rtf, zip)				
barcode		Scan a barcode, requires the barcode scanner app to be installed.				
calculate	1+1	Perform a calculation; see the Calculation section below.				
acknowledge	~	Acknowledge prompt that sets value to "OK" if selected.				
hidden	8	A field with no associated UI element which can be used to store a constant.				
xml-external	D _	Adds a reference to an external XML data file.				

Add more questions



- Using the icons on the right side of the question, you can edit a question's settings
 - delete,
 - duplicate,
 - put it into the library for later use
- You can even add hint for the question



 To preview how your survey will look after entering your questions click the eye icon in the top left-hand corner.



To check for errors, enter some information and click on the 'Validate' button.

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C KoBo Toolbox

Training sample1

Surveyor name

Province

District

Gender

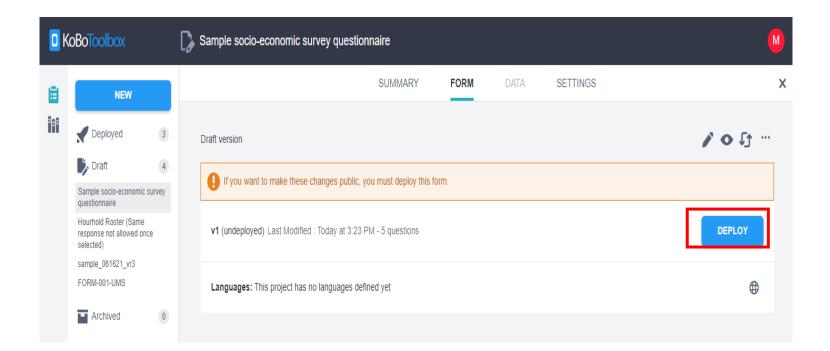
O Male

Female

Sources of household income

• Now you are in the survey settings.

• To launch the survey, click 'Deploy'.



After you deploy the form, you can select
'Online-Offline
(Multiple submissions)' under collect data.

C KoBoToolbox		Sample socio-economic survey questionnaire	0 submissions
8	NEW	SUMMARY FORM DATA SETTINGS	×
	Deployed 4	Current version	/ o 5 ···
	questionnaire	v1 Last Modified : Today at 3:34 PM - 5 questions	REDEPLOY
	Draft 3	Languages: This project has no languages defined yet	⊕
		Collect data	
	Archived 0	Online-Offline (multiple submission)	COPY OPEN
	Aldined	This allows online and offline submissions and is the best option for collecting data in the field.	

 You can copy the link by clicking the 'COPY' icon to share with your team or paste the http link into a search engine to open the questionnaire in a browser After data submission you can find a comprehensive overview of your survey on the Summary tab.

<mark>)</mark> Ko	BoToolbox	Sample socio-economic survey ques	tionnaire					0 submissions	M
	NEW		SUMMARY	FORM	DATA	SETTINGS			×
	Deployed 4	Description					Quick Links		
	Sample socio-economic survey questionnaire Trader questionnaire June 10	Project country Papua New Guinea	Sector Economic/Sector	ocial Developme	nt		Collect data	>	
	Price questionnaire March 29 WMS001: Urban Market The purpose of this questionnaire is to collect fictitious socioeconomic data for training purposes.					A Share project	>		
	Information Survey						Edit form	>	
	Draft 3 Household Roster (Same	Submissions					Preview form	>	
	response not allowed once selected) sample_061621_vr3 FORM-001-UMS	Past 7 days Past 31 days							
	Archived 0 No chart data available for current period.								
		0 Mar 3, 2022 - Mar 9, 2022	0 Feb 24, 2022 - Mar 2,	2022	0 Total				

- The application will allow you to view the results of your survey, share the project with colleagues and edit the form.
- Whenever you make changes to the form, you have to do a re-deploy.

Getting started with XLSForm

What is an XLSForm?

• XLSForm is a form standard to help simplify the authoring of forms in Excel.

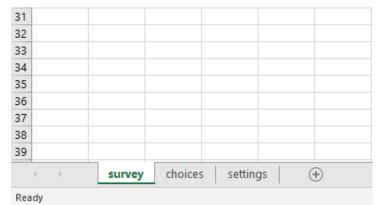
Create data collection form using Microsoft Excel

- Set up an XLSForm using Microsoft Excel.
- Upload and preview the XLSForm in KoboToolbox.
- Download a form created using the KoboToolbox

form builder as an XLSForm.

Three mandatory sheets

- **1. Survey**: In this sheet write all the survey questions, along with the corresponding type, label, restriction, code, and other instructions.
- **2. Choices**: In this sheet list all choices for single or multiple selection questions
- **3. Settings**: This sheet is for form naming and to determine how the forms will be viewed on both mobile devices and the KoBo web page



Basic formats

• The **survey** worksheet has 3 mandatory columns:

type, name, and label.

- The **type** column specifies the type of entry you are adding.
- The **name** column specifies the unique variable name for that entry. No two entries can have the same name. Names have to start with a letter or an underscore. Names can only contain letters, digits, hyphens, underscores, and periods. Names are case-sensitive.
- The **label** column contains the actual text you see in the form.

A	В	c	D	E	F	G	
type	name	label::English (English)	require	d apperance	parameters	relevant	calculation
today	today						
3 phonenumber	phonenumber						
4 deviceid	deviceid						
5 begin_group	Survey_Detail	Market and crop price	false				
6 select_one market	Market_Name	Market Name	true	minimal	randomize=fals	e	
7 text	Market_other	Other (specify)				\${Market_Name}=99	
8 calculate	Market_current						if{\${Market_Name}!=99,jr:choice-name{\${Market_Name}, '\${Market_Name}'),\${Market_other}}
9 time	Starting_Time	Starting_Time					
0 date	Date	Date	true				
1 select_one enumerato	r Interviewer	Interviewer name	true				
2 text	Interviewer_other	Other (specify)				\${Interviewer}=99	
3 select_multiple crop	crop_available	Please select all of the crops that were available to buy in S{Market_current} today.					
4 calculate	numb_crop						count-selected(\${crop_available}}
5 note	note0	You have selected \${numb_crop} available crops in \${Market_current}					
6 end_group	Survey_Detail						
17 begin_group	Rice	Rice price at or near \${Market_current} market [1 kg bag of Roots long grain, white rice]					
8 decimal	Rice_price	Please record the price (in KINA) of a 1kg bag of Roots rice (white, long grain) in or near \${Market current} market	t?				
9 end_group							
0 begin_repeat	crops_in_market_repeat	Crop price in \${Market_current} market					
1 begin_group	crop_group	Please select the crop that you would like to report the price and weight at \${Market_current} market					
22 select_one crop	crop_name	Please select a crop you want to record price for	true	minimal			
23 calculate	crop_current						jr:choice-name(\${crop_name}, '\${crop_name}')
24 calculate	crop_category						if((\${crop_name}=1 or \${crop_name}=2 or \${crop_name}=3 or \${crop_name}=4 or \${crop_name}=5 or \${crop_name}=6
15 note	crop_type	Crop type: S{crop_category}					
6 begin_group	General_Assessment		false	field-list			
7 calculate	Market						\${Market_current}
8 select_one availability	Level of Availability	Level of \${crop_current} availability	false				
9 select_one quality	Quality_Status		false				
0 end_group	General Assessment						
1 begin_group	sample 1	Sample 1: price for \${crop_current}	false	field-list			
2 decimal	sample1 price		false				
3 decimal	sample1_piece		false				
4 decimal	sample1_weight_kg		false				
	Supply_Source_Province1		false				
	Supply_Source_District1		false				
7 end_group							