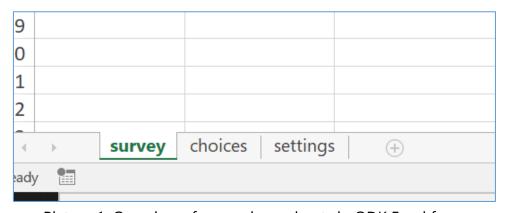


A Guide to Create an ODK Data Collection Form using Microsoft Excel

In this guide, you will learn the basic steps needed to design an ODK Excel form that will later be uploaded into the KoBo Toolbox website (https://www.kobotoolbox.org/) for survey generation. For this guide, it is recommended that you have a basic understanding of excel as well as a good understanding of designing a survey questionnaire.

The first step in designing an ODK form is to create three separate sheets as follow:

- Survey-This sheet is comprised of all the survey questions together with their corresponding type, label, restrictions, coding and other instructions that will later be interpreted by the KoBo server once uploaded
- Choices- This sheet will list all of the choices that related to any select one and select multiple questions written on sheet survey
- Settings- This sheet is necessary for form naming and to determine how the forms will be viewed on both mobile devices (KoBo Collect) and the KoBo web page (Enketo)



Picture 1: Overview of compulsory sheets in ODK Excel form



Survey Sheet

Moving to the next step which is filling the survey sheet with the questions. To start with, type in the column headers, the following keywords:

Header	Explanation	
Type*	All questions need to be categorized in their respective type so	
	that ODK can recognize them. These types include free text	
	questions, single/ multiple options and even photos and	
	geographical locations. You can also group questions or	
	introduce repeat questions which always appear as a table in a	
	paper-based survey. For more detailed information, you can refer	
	to these <u>question types</u> . ODK has also listed a <u>data entry widgets</u>	
	that you can easily access and use.	
Name* Elements in this column are the headers for the res		
	names should be related to the questions. All elements under this	
	column must be unique. It should not contain any spaces. The	
	names can only be in letters, numbers with and without	
	underscore. For example 'A102', 'population_sample', 'location'.	
Label*	All elements under this column will be shown in the survey.	
	Basically, this is how the survey questions will appear once the	
	form is successfully deployed. There is no specific format on how	
	you should type in the questions here. You are free to type in	
	your intended questions. For example, What is your name?, Date	
	today?, Which of the following is/ are true?	
Hint	Any additional comments that help to explain how the questions	
	should be answered can be added here. It will appear below the	
	questions in a smaller size.	

^{*}Compulsory headers



	А	В	С	D
1	type	name	label::English	hint::English
2	text	Name	Name of respondent	
			Hello \${Name}. This questionnaire is	
3	note	Welcome	just a test. Feel free to answer it!	
4	integer	year_born	In what year you were born	(xxxx)
5	calculate	Age		
6	note	Age_2	The respondent age is \${Age} years old.	
7	select_one Gender	Gender	Gender of respondent	
8	select_multiple Education	Education	Qualification of respondent	Educational level
9	geopoint	location	Current location	GPS coordinate
				Tips: Use the best
10	image	selfie	Please take a selfie!	resolution you have
11	select_multiple information	information	How do you know about this program	
			Which social media are you referring to:	
12	text	social_media	Facebook, Twitter or Instagram?	
13				
4	survey choices	settings +		1

Picture 2: Type, name, label and hint column in survey sheet

Header		Explanation	
Header Calculation	ODK provides a this column, you within ODK. As row 5 a question column calculation instructed any number will be subtracted stored and there for more information.	chance for you to do a u can type any calculati an example, see the sc on type calculate was tion, you can see a umber (in this case year ed with 2020. The subtra a appear under the columation, refer to this Fo	on that is available creenshot below. In introduced. Under simple command r) inputted in row 4 action value will be umn label in row 6.
	me label::English me Name of respondent	hint::English	relevant calculation
	Hello \${Name}. This que elcome just a test. Feel free to a	nswer it!	
5 calculate Ag	ar_born In what year you were be e The respondent age is \$,	2020-\${year_born}
Appearance	will appear or commands avail	bles you to determine he nemobile devices. The lable on how to visua this <u>link</u> to see some o	nere are multiple lize the questions.



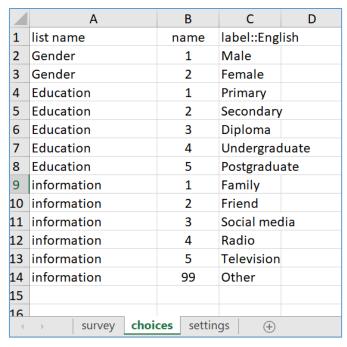
	1
Constraint	If you want to set any restrictions for certain questions, this
	column is where you type in that constraints. For example, the
	number of days in a month should never exceed 31 and should
	not be lower than 0. The command will be $.>=0$ and $.<=31$. If any
	values outside this range are put, a constraint message will be
	popped out. You can specify what error messages you want to
	show under the Constraint_message column.
Required	Under this column, if you put Yes or True for any questions, those
	questions need to be answered and you cannot skip them.

Choices sheet

While filling up the survey sheet with the questions, you will need to simultaneously fill in the choices sheet too. Under the choices sheet, there are three compulsory column headers; list name, name and label.

Header	Explanation
List_name	The elements in this column should be referred to the name you
	type in the select one/ multiple of the survey sheet. It will be
	repeated as much of the options you provide for that question. For
	example, when referring back to Picture 1, you can see in row 8,
	column A it is written as select_multiple Education. It means
	respondents can choose to tick multiple options related to
	education. These options as listed in Picture 3 are Primary,
	Secondary, Diploma, Undergraduate and Postgraduate
Name	This is similar to your <i>Name</i> column from the survey sheet. This must
	be unique and is related to your choices Labels. You can use letters,
	numbers and/or underscore for the names of the choices.
Label	Same like in the survey sheet, all elements typed in this column will
	be appeared on the devices



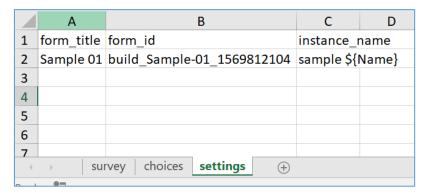


Picture 3: Screenshot of choices sheet

Setting sheet

For this sheet, the usual headers are as follow:

- form_title this will save the name of your form and will be automatically written as to the form title at the top of your survey.
- form_id ODK creates an ID for each of the forms that you create. Make sure that your form_id is unique.
- You can also specify the instant ID name saved for each of the responses you received by specifying it under the instance name column



Picture 4: Screenshot of settings sheet



Once you are done filling and specifying all of the questions, you can save the Excel form in 'xlsx' format. You may now upload and test the form in Kobo Toolbox. If no coding errors appear, your form will be deployed and you can start the survey. For any case of coding errors, an error box will be shown to guide you.

Get in touch with <u>Saadiah Ghazali</u> for more information on the coding and overall process of mobile data collection using KoBo Toolbox.