Cascading in ODK Build Offline

I have open Build Offline and created a new form. In *Settings > Form Properties*, I called my form '**Build cascading Demo**' (Title on Device) and '**Build_cascading_Demo**' (Instance name).

In *Setting > Translations*, I have added **Oromo** as second language.

I dragged a **Choose One**[1] widget onto the canvas and filled in the properties as shown in Figure 1 below.

Figure 1: Choose one drag and drop

Knowing that I want to implement cascading selects with the woreda (district) level first, then the kebele (sub-district) level after, I have prepared the tables shown in *Figure 2* below in order to copy and paste each table in the appropriate preset. Please note that I have added a third level (zone) without filling in corresponding data. My purpose is just to show how a third level could be added.

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[1] Why not call this widget simply **Select one** as opposed to **Select multiple**???

Preset		Level 1			
woreda					
	Underlying Value	English	Oromo		
	arsinegelle	Arsi Negelle	Arsii Nageelle		
	shalla	Shalla	Shaallaa		
		Level 2			
Preset					
kebele	woreda Value	Underlying Value	English	Oromo	
	arsinegelle	mudi	Mudi Arjo	Mudhii Arjoo	
	arsinegelle	hade	Hade Boso	Haadha Boosoo	
	arsinegelle	keraru	Keraru	Qaraaruu	
	arsinegelle	alge	Alge	Aalge	
	arsinegelle	bila	Shalla Bila	Shaallaa Billaa	
	shalla	fende	Fende Ejersa	Fandee Ejersaa	
	shalla	danisa	Danisa Bunge	Daannisa Buunge	
	shalla	arjo	Arjo	Arjo	
		Level 3			
Preset					
zone	woreda Value	kebele value	Underlying Value	English	Oromo

Figure 2: Prepared presets in Excel for cut and paste

I then clicked **bulk edit** to enter the choices list for my first level, i.e. woreda. The Options Editor shown in *Figure 3* below. I copied and pasted the woreda preset columns and saved the preset as 'woreda' the clicked **Apply** to save and exit.

Figure 3: The Options Editor screen for the woreda (first level) preset

After that I clicked Cascading in the Properties Pane. A new widget is now added to the canvas as shown in *Figure 4* below.
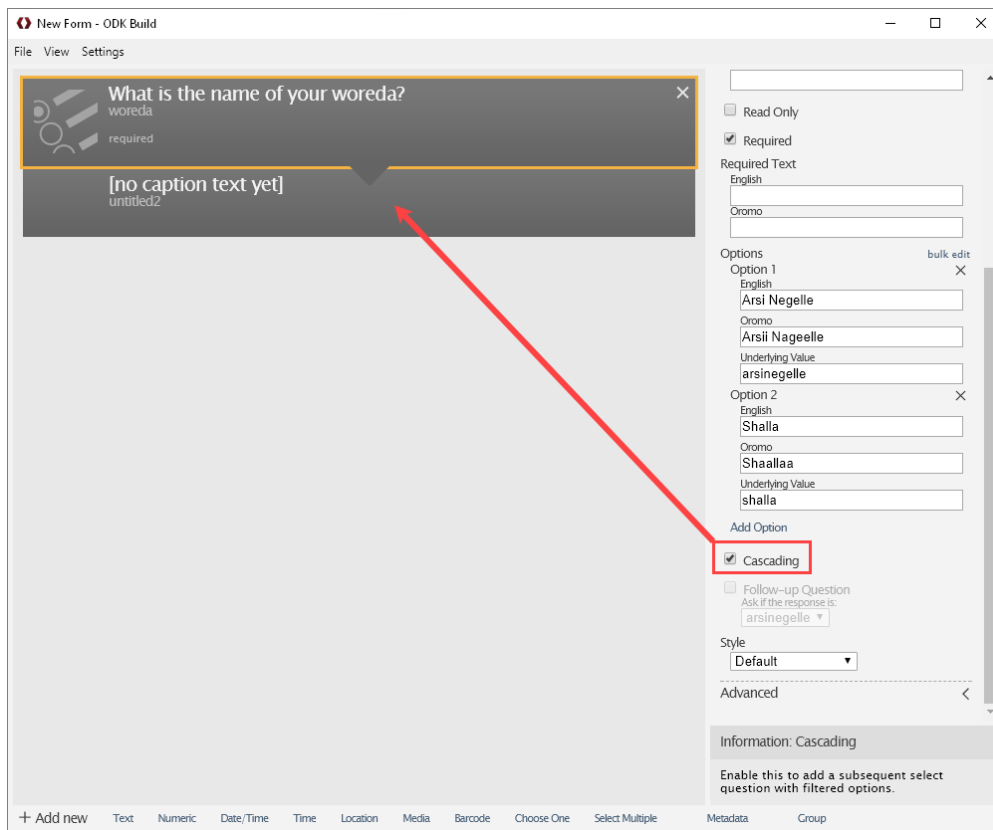
Figure 4: When Cascading is checked, a new widget is added automatically

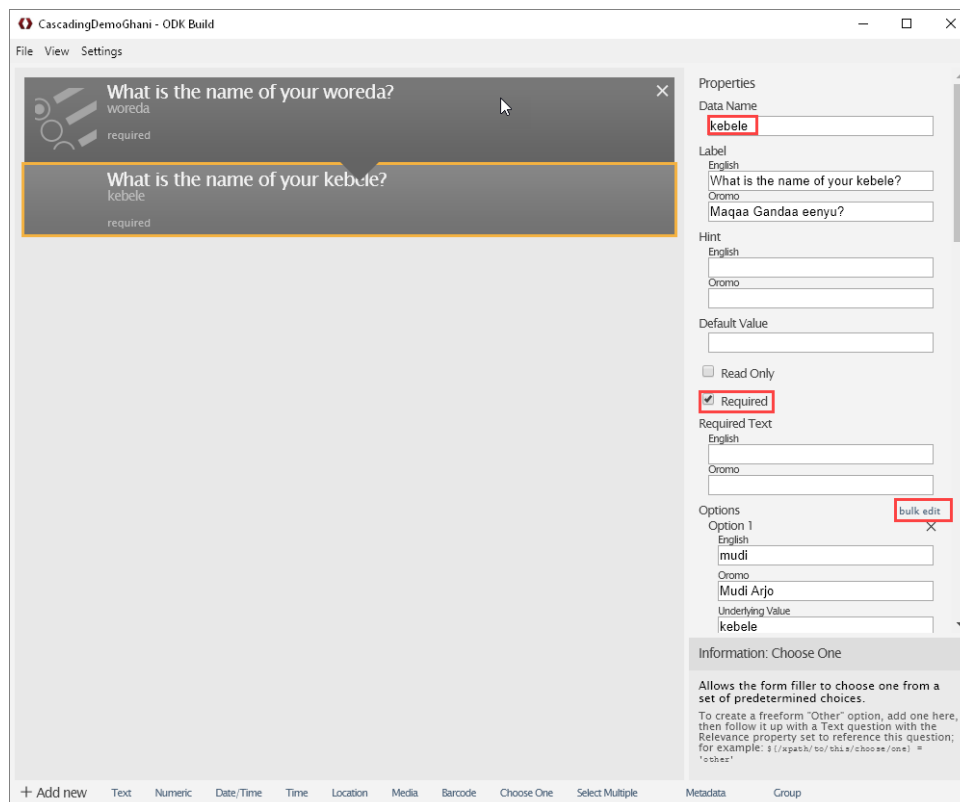I filled in the properties and clicked **bulk edit** as show in *Figure 5* below.

Figure 5: Opening the bulk edit of the kebele (second level) preset

The Options Editor for the second level (kebele) opened as shown in *Figure 6* below.

Figure 6: The Options Editor screen for the kebele (second level) preset

I could have added a third 'zone' level by checking Cascading in this new widget. The Options Editor for this third level would have opened as shown in *Figure 7* below.

Figure 7: The empty Options Editor screen for the zone (third level) preset

But I didn't since I am interested only in the first two levels.

I have exported the Build form as an Excel workbook file to see what it contains. It contains 4 worksheets:

- survey: (see *Figure 8* below) Everything is OK except for a strange couple of empty parentheses () under **relevant** which prevented the form from being valid. This is clearly a bug. I had to delete it for the form to be validated;

- **choices**: (see *Figure 9* below) For each preset, the ***list name*** is choices_presetname. Everything is OK;
- **settings**: (see *Figure 10* below) the form-id column contains 'build_Untitled-Form_1520078572' which is not normal (**a bug?**) as it should use the form_title by default;
- **warnings**: this sheet contains only 'message' a column title. **It would better that if there are no messages, this worksheet is not created at all**.

Apart from the little imperfections mentioned above, cascading works perfectly in ODK Build Offline as shown in *Figure 12* below. Many thanks to **Clint Tseng**.

	A	B	C	D	E	F	G	H	I	J	K
1	type	name	label::English	label::Oromo	hint::English	hint::Oromo	required	constraint_message::English	constraint_message::Oromo	relevant	choice_filter
2	select_one choices_woreda	woreda	What is the name of your woreda?	Maqaa abbaa warraa?			yes				
3	select_one choices_kebele	kebele	What is the name of your kebele?	Maqaa Gandaa eenyu?			yes			()	woreda = ${woreda}

Strange empty parentheses under relevant. Must be erased, if not form not valid

survey　　choices　　settings　　warnings

Ready　　　100%

Figure 8: The survey worksheet

	A	B	C	D	E	F	G	H	I	J
1	list name	name	label::English	label::Oromo	woreda					
2	choices_woreda	arsinegelle	Arsi Negelle	Arsii Nageelle						
3	choices_woreda	shalla	Shalla	Shaallaa						
4	choices_kebele	mudi	Mudi Arjo	Mudhii Arjoo	arsinegelle					
5	choices_kebele	hade	Hade Boso	Haadha Boosoo	arsinegelle					
6	choices_kebele	keraru	Keraru	Qaraaruu	arsinegelle					
7	choices_kebele	alge	Alge	Aalge	arsinegelle					
8	choices_kebele	bila	Shalla Bila	Shaallaa Billaa	arsinegelle					
9	choices_kebele	fende	Fende Ejersa	Fandee Ejersaa	shalla					
10	choices_kebele	danisa	Danisa Bunge	Daannisa Buunge	shalla					
11	choices_kebele	arjo	Arjo	Arjo	shalla					
12										

survey　　choices　　settings

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Figure 9: The choices worksheet

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Figure 10: The settings worksheet

Figure 11: The warnings worksheet

Figure 12: The form opened in ODK Collect