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Mobile data collection

2017-06-22

Mobile Data Collection in Edmonton

Purpose	Product	Developer	Platforms	Offline Capability	Cost
PiT Count	iSURVEY / DroidSURVEY	Harvest Your Data	iOS, Android	Yes	$50-$90 per month
Homeless Connect	ODK Collect	Open Data Kit	Android	Yes	Free

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Advantages

- Quicker access to data
- Less paper
- Consistency in form completion
  - No missing data
  - Clarity of selections
  - Conditional order followed

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ODK Collect

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ODK Collect

- Free
- Need an aggregator (Google cloud platform) – basic tech literacy required
- Survey build in Excel, translated to XML for upload – requires basic understanding of coding (usually good at error checking)
- Very flexible in conditional logic, cascading options, etc. – can be a bit slow to load if complex
- No iOS compatibility! Developed by Google employees

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ODK Collect – Back End

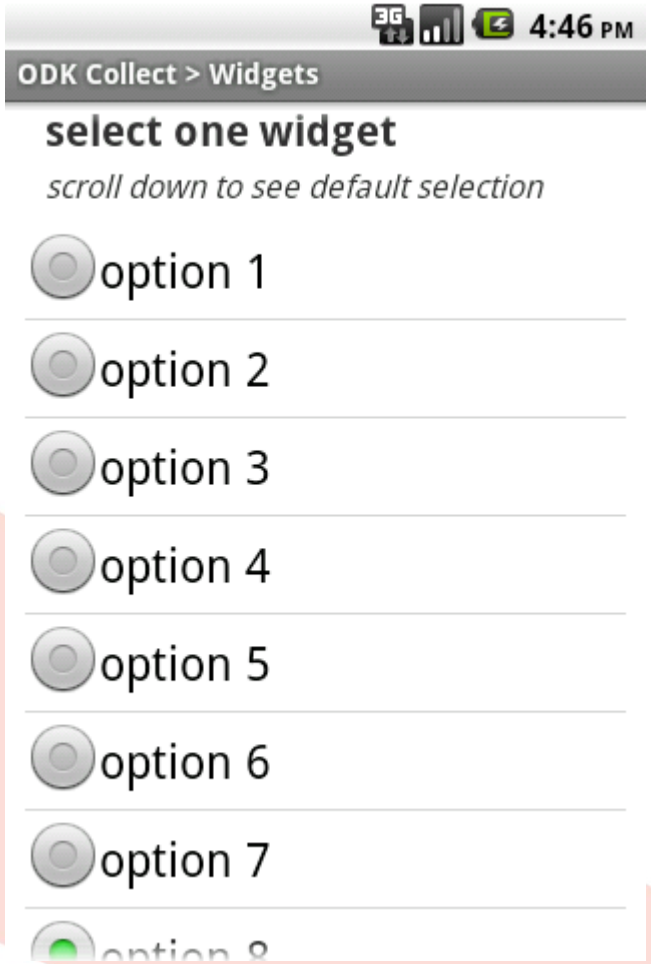
HCIntakeOct2016 - Excel

File Home Insert Page Layout Formulas Data Review View Tell me what you want to do

B5 select_one interviewer or_other

	B	C	D	E	F	G	H	I	J	K	L
1	type	name	label	hint	required	relevant	calculatior	appearanc	constraint_messag e	constraint	
8	select_multiple gender	Gender	What gender do you identify with?	Genderqu	yes	${Consent}=1					
9	integer	Age	How old are you?	999=Decli	yes	${Consent}=1			Please en	(. >=13 and . <120)	
10	select_one military	Military	Have you ever had any service in the Canadian military or the RC	Military ir	yes	${Consent}=1					
11	select_one ethnic	Ethnic	Do you identify as Aboriginal or do you have Aboriginal ancestry? This incl		yes	${Consent}=1					
12	select_one country or_other	BornWhere	What country were you born in?		yes	${Ethnic}=0 or ${Ethnic}>10					
13	select_one firstnation or_other	FirstNationMe	Regardless of current membership, what reserve, settlement or	For Masku	yes	${Ethnic}>=1 and ${Ethnic}<10					
14	select_one yn	InEd	Have you lived in Edmonton all your life?		yes	${Consent}=1					
15	begin_group	group_InEd	How long have you been in Edmonton?			${InEd}!=1 and ${Co		field-list			
16	select_one units	InEdUnits	How long have you been in Edmonton?		yes						
17	integer	InEdTime	How long have you been in Edmonton?	999=Decli	yes				Please ro	(.>=0 and .<=1000)	
18	end_group										
19	select_one canada	WithinCanada	Did you move to Edmonton from somewhere else in Canada or from outsi		yes	${InEd}!=1 and ${Consent}=1					
20	cascading_select town	From	Where did you come from before you came here?		yes	${WithinCanada}=1					
21	select_one yn	FromHomeles	Were you experiencing homelessness when you left there?		yes	${InEd}!=1 and ${Consent}=1					
22	select_one yn	PermRes	Do you have a permanent residence that you can return to tonig	Do not inc	yes	${Consent}=1					
23	select_one currentstay	PermResType	What type of residence is your permanent residence?		yes	${PermRes}=1					
24	select_one currentstay	CurrentStay	Where are you currently staying?		yes	${Consent}=1					
25	integer	Homeless3X	How many times did you become homeless in the past 3 years?	Count eac	yes	${CurrentStay}>1 and ${Curre			Please en	.>=0 and .<=999	

ODK Collect – Front End



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Harvest Your Data

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iSURVEY / DroidSURVEY

- GUI for survey building
- Simple skip logic, but not complex statements
- Annoying output for multi-select questions
- Devices must be approved by administrator
- Build and modify requires internet connection (and can't bulk paste values)

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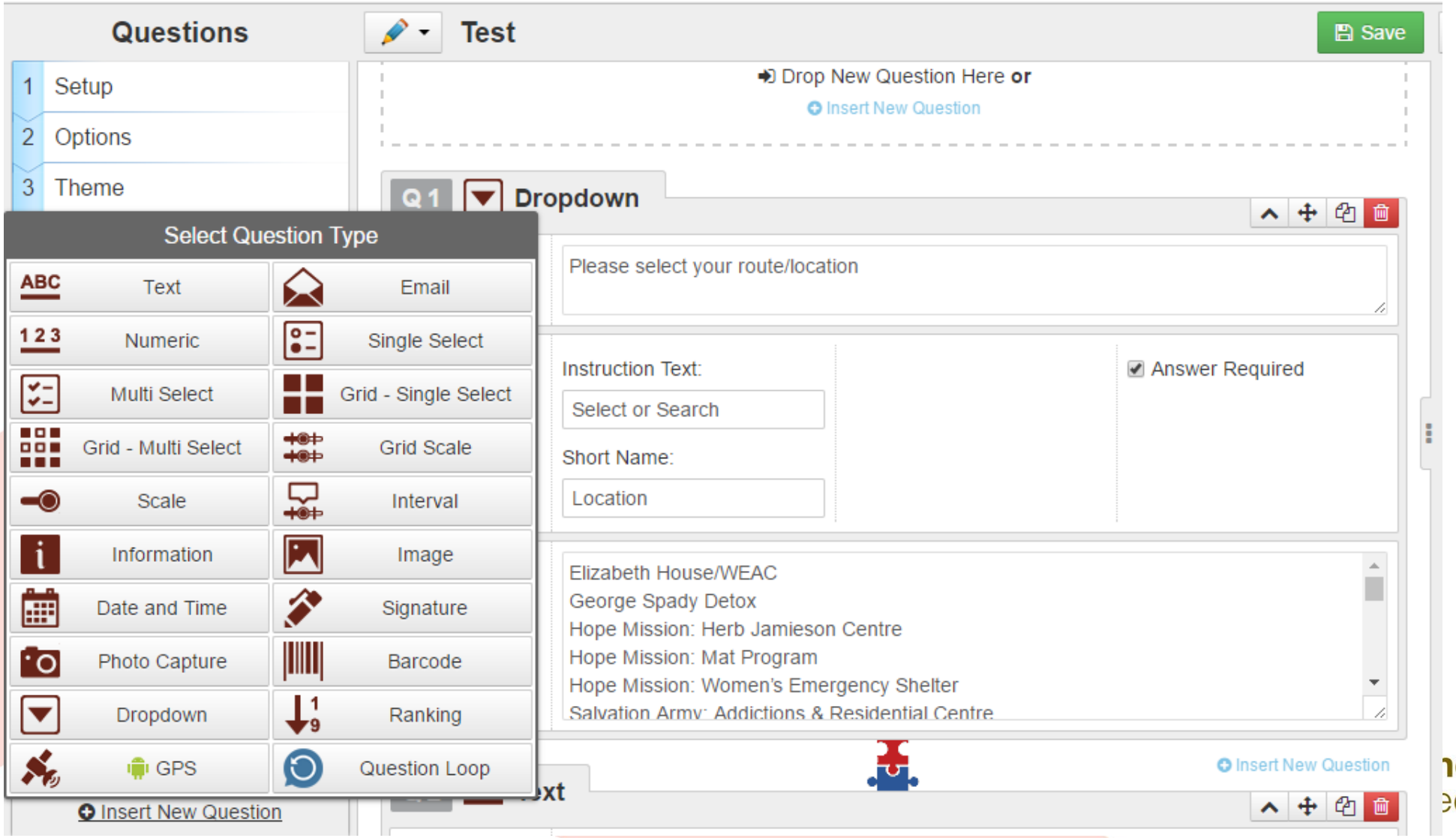
iSURVEY / DroidSURVEY – Back End



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iSURVEY / DroidSURVEY – Back End

Q4 Single Select Have you answered this survey with a person with this vest?	Yes	Conclusion Screen
	No	Question 5
Q5 Single Select Are you willing to participate in this survey?	Yes	Question 6
	No	Conclusion Screen
Q6 Single Select What day is it?	Wednesday, October 19	Question 7
	Thursday, October 20	Question 12
Q7 Single Select Do you have a permanent residence that you can return to toni ght?	Yes	Question 8
	No	Question 9
	Don't Know	Question 9
	Decline to Answer	Question 9

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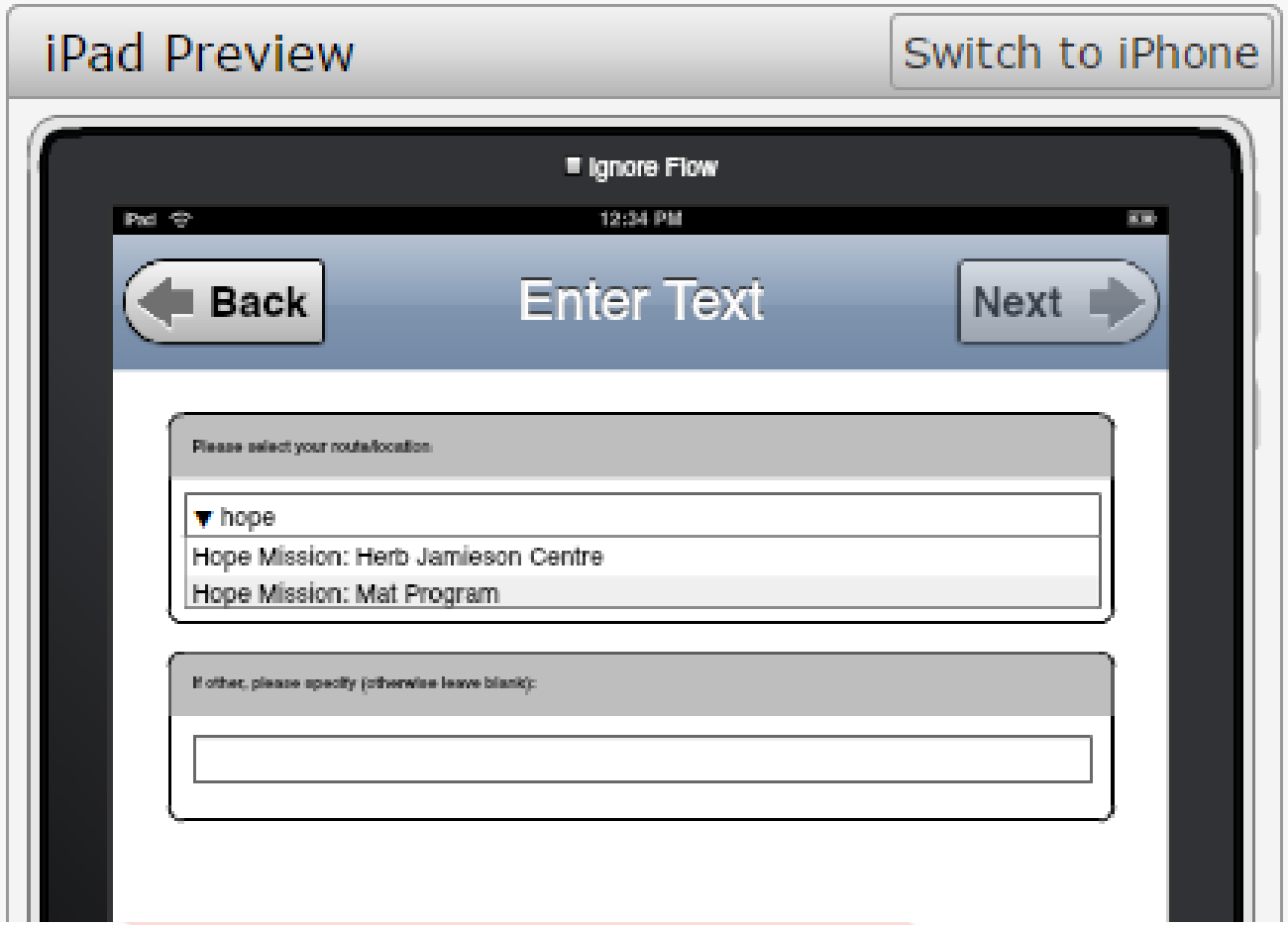
iSURVEY / DroidSURVEY – Front End



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General Learnings

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Useful Features

- Control layout on a device and easy preview
- Skip logic flexibility!
- Auto-upload with data connection (option: conditional on wifi)
- Auto-advance screen when single select chosen
- Scoring / specific output values for multiple choice options
- GPS…but ensure inability to get a reading doesn't stop survey
- Cascading answers

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Challenges on Any Platform

- Don’t Know / No Response answers to numeric questions
- Testing → Production. Ensuring the right copy is on all devices

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I don’t think we’re taking questions yet…

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