

Multimedia Appendix 1:

Design Prototype for Mobile EDC Forms 0 %

Participant ID no/Unique Subject Identifier (USI)
Please type here

Interviewer name
Please type here

Interviewer telephone number
Please type here

Current date
07/04/2018

CONTINUE

Figure 1a: The demographic section

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SI-3. How much did it cost you to buy materials to go with to the place of delivery?

Clothes
_____ UGX Don't know or don't remember

Cotton
_____ UGX Don't know or don't remember

Gauze
_____ UGX Don't know or don't remember

Plastic sheet
_____ UGX Don't know or don't remember

Basin
_____ UGX Don't know or don't remember

PREVIOUS **NEXT**

Figure 1b: The list pickers

In the demographic section (Figure 1a), the RAs were required to fill in a participant ID, interviewer name and the interviewer telephone number, the date automatically updated. The participant ID had to be between 1000-9999, the interviewer name included the first and the last name and had to consist of at least 10 letters, and the telephone number was comprised of 10 numbers. It was not possible for the user to proceed without filling in these fields correctly. The progress status on continuation to the next screen was represented by an increase in percentage, and the users could navigate the prototype by either swiping or by using the navigation buttons in the form.

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SII-1. Since birth has the child ever been admitted to hospital?

Yes No

SVII2. How many times has the child been admitted to the hospital?

1 2 3 4 5

SVII3. What was the reason for hospitalization?

SVII4. For how many days was the child in hospital?

SVII5. Do you have medical records?

Visit 1	SVII3 ▼	SVII4 ▼	SVII5 ▼
Visit 2	SVII3 ▼	SVII4 ▼	SVII5 ▼
Visit 3	SVII3 ▼	SVII4 ▼	SVII5 ▼

PREVIOUS **NEXT**

Figure 2a: The child's sickness record

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Thank you for filling the form. If you wish to submit the form, please go ahead and press the submit button. Please note that you will not be able to edit the data in the form once it is submitted.

If you wish to review the form once more before submission, please press the previous button on this screen.

PREVIOUS **SUBMIT**

Figure 2b: The submission screen

Section I of the prototype was concerned with list pickers (single choice and multiple choice pickers) (Figure 1b). In the single choice list picker, the participants were required to select only one option here, and if they chose the 'other' option, they were required to specify that option. The participants could pick more than one option in the multiple choice option, and could still specify the 'other option' if selected. It was not possible to continue to the next screen unless the fields were filled appropriately. Still in this section, members were required to fill in the cost of the materials they used when going to hospital. In case they didn't know or couldn't remember how much they spent, the 'don't know' or 'don't remember' option was available. Since this was being tested in Uganda, the users were required to type a value of 4 digits or more. It was also not possible to select 'don't know' and to type a cost against the same item. Every item in the form either had to have a cost or a 'don't know' or 'don't remember' against it before the user could continue to the next screen.

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Participant ID no/Unique Subject Identifier (USI)

578

✘ Must be between 1000-9999

Interviewer name

Emma

✘ Must contain first name and last name, minimum 10 letters.

Interviewer telephone number

9876543789

✔ Correct

Current date

07/04/2018

CONTINUE

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SI-3. How much did it cost you to buy materials to go with to the place of delivery?

Clothes Requires a numerical response or don't know

UGX Don't know or don't remember

Cotton

567 UGX Don't know or don't remember

Type 4 digits or more

Gauze

UGX Don't know or don't remember

Plastic sheet

98765 UGX Don't know or don't remember

Basin

UGX Don't know or don't remember

Type 4 digits or more

PREVIOUS NEXT

Figure 3a: Validation testing screen

Figure 3b: Screen indicating feedback

Section II of the prototype showed different table designs capturing a child's sickness record (Figure 2a). The participant was required to indicate if a child had been hospitalized or not. If the child had not been hospitalized before, the participant would be requested to submit the form. However, if the child had been admitted, the number of times a baby had been hospitalized, the reason for the hospitalization, the number of days for each hospitalization and whether the medical records were available or not were recorded. Each of these options had a drop down list from where the RAs were required to select what they felt the correct option was.

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SII-1. Since birth has the child ever been admitted to hospital?

Yes No

SVII2. How many times has the child been admitted to the hospital?

1 2 3 4 5

SVII3. What was the reason for hospitalization?

SVII4. For how many days was the child in hospital?

SVII5. Do you have medical records?

Visit 1	Ear disc	5	Yes
Visit 2	Tempei	3	No
Visit 3	Baby's l	1	No

PREVIOUS NEXT

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Summary of SII-1. Since birth has the child ever been admitted to hospital?

Visit 1: reason for hospitalization "Ear discharge". The child spent 5 days in the hospital and medical records exist (Yes).

Visit 2: reason for hospitalization "Temperature < 35.5C or > 37.5C". The child spent 3 days in the hospital and medical records exist (No).

Visit 3: reason for hospitalization "Baby's body too hot". The child spent 1 days in the hospital and medical records exist (No).

Is the information correct? Yes No

PREVIOUS NEXT

Figure 4a: Screen showing logic implementation Figure 4b: Summary of information from screen 4a