DEVELOPMENT OF COALITION FOR HUMANITY DATA COLLECTION MOBILE APP TERMS OF REFERENCE

Coalition for Humanity (CH) is a humanitarian and development organization with experience in implementing humanitarian and resilience projects. We focus on Food Security and Livelihoods (FSL), Water, Sanitation and Hygiene (WASH), Shelter and Non-Food Items (NFIs), Gender Based Violence (GBV), General Protection (GP), health and nutrition, as well as Education and Empowerment. We consider Protection/GBV, Housing, land and property rights (HLP), Shelter and Non-Food Items (NFIs), peacebuilding and conflict transformation as cross cutting issues. CH has its headquarters in Juba, the capital city of South Sudan.

Purpose of Assignment

To develop an Android app enabling users to retrieve, fill out, and submit surveys digitally from a smart device. The app to allow allows data collection using Android mobile devices and data submission to an online server, even without an Internet connection or mobile carrier service at the time of data collection. Streamline the data collection process with electronic forms that allow text, numeric data, GPS, photo, video, barcodes, and audio uploads to an online server.

System Capabilities

- Provide a backend for data storage with data export option that allows the user to get their survey data in a GeoJSON geographic file format in addition to the standard spreadsheet. This functionality should make it easier to use the data in a GIS or other downstream tool.
- The app must collect GPS coordinates in the background to provide evidence that data was collected in a particular place.
- The app to be coded in a standardization of date and time formats in data exports.
- The mobile app should allow additional creating of several survey forms by a drag-and-drop form designer and also design form in a spreadsheet using XLSForm.
- Allow users of the survey to attach media files to their form submissions. Ranging from Image, Audio or Video as media format. The survey form should be able to switch to the device's camera mode, voice memo mode or video camera mode, and able to store media with links.
- The data collection program should be compatible with android and installed on smartphone, and allow the questionnaires to be saved on the phones memory card where it can be accessed and completed even without internet connectivity.
- The app should allow asking questions not only in linear sequence but have a skipping pattern, with logical system based on answers provided in previous questions. The questions should not only be in a linear sequence but also with a predetermined if-then logic system, relying on answers to previous questions.

- The app should collect data using an Android device without being connected to the internet. store data until the devise has access to internet and later uploaded to the server.
- The app to allow various scales of measure, rating scale, ranking, ordinal, nominal and ration scales
- The app should create an audit file with data from all submissions.
- Enable multiple users with
- Allow unlimited questions per survey

Scope of work

1. Develop the mobile app with a back-end system for downloadable reports
2. Secure hosting space for the app and upload the app in play store
3. Propagate the following questionnaires
   - Health survey
   - Protection and GBV survey
   - Peacebuilding, governance and citizen participation survey
   - Protection and HLP survey
   - Integrated protection, peacebuilding and GBV survey
   - Peacebuilding and conflict transformation survey
   - WASH survey
   - Shelter/ NFIs survey
   - S/NFI household registration forms
   - Health facility reporting forms
   - Food security and livelihood survey

NB: **Coalition for Humanity will provide the survey questions, will be able to make further modifications and propagate future surveys**. Upon completion of design, commission apart from ongoing post design support, CH will have full ownership and all rights of the app.

Required.

We would like to invite IT companies/individuals with prior experience to provide a technical and financial response indicating hosting and devise requirements, number of days assignment will take, cost of the assignment and any future hosting or maintenance costs involved. Provide 3 alternative technical persons who would be on standby to offer post design and implementation support.

Share sample of similar assignments.

Proposals will be accepted from **25th November to December 15th 2022.** However due to urgency of this assignment, application will reviewed on rolling basis to ensure the assignment is completed on time. Please send your submission to Juba.procurement@ch-int.org