

TANZANIA RESEARCH AND CONSERVATION ORGANIZATION



Tender for Design, Development **and** **Maintenance of Mobile Application**

Tender Title: Mobile App Programmer / Developer

Tender Type: Freelance/Contract (One-time Project)

About Tanzania Research and Conservation Organization.

Tanzania Research and Conservation Organization (TRCO) is a non-profit organization, established on 30th December 2021 under the Non-Governmental Organization Act No. 24/2002. The organization operates within the Tanzania mainland, focusing on biodiversity research and conservation. TRCO head office is located in Morogoro Municipal at Forest Hill area Kihimbwa street, P.O. Box 6873 Morogoro. TRCO focuses to foster co-existence between people and biodiversity, promoting sustainable utilization of biodiversity resources, effectively addressing climate change impacts, and enhancing local community livelihoods.

Tender Description:

TRCO is implementing the USAID Tuhifadhi Maliasili Activity titled “**Promoting human-pangolin coexistence in Kwakuchinja, Nyerere-Selous-Udzungwa, and Amani-Nilo corridors, Tanzania**”. Therefore, to implement these Activity TRCO is seeking a skilled and innovative Mobile App Developer to lead the development of a cutting-edge mobile application. The app's primary goal is to facilitate offline data collection, enabling users to input various data types, including text, images, and videos, while working in remote areas with limited or no internet connectivity. Once an internet connection becomes available, the app should seamlessly synchronize the locally collected data to the server for further analysis and processing.

Duties and Responsibilities:

1. Develop a cutting-edge mobile application for TRCO, primarily to facilitate data field collection encompassing picture data and checklist questions.
2. Collaborate with the TRCO team to define app requirements and user experience (UX) design.
3. Write clean and efficient code for the mobile app, ensuring optimal performance and usability.
4. Ensure the app's compatibility with both Android and iOS devices, guaranteeing a user-friendly experience for remote villagers, conservation practitioners, rangers, and tour guides.
5. Create a real-time data collection system within the app to capture vital information efficiently.
6. Design the app to function seamlessly in diverse environments, allowing usage in both online and offline settings.
7. Implement offline data storage and synchronization mechanisms to enable seamless data collection without internet connectivity.
8. Integrate features for capturing text, images, and videos, while ensuring maximum security and privacy.
9. Address the specific needs of TRCO and empower the organization's technical and non-technical staff to maintain the app after its development.
10. Conduct thorough testing and debugging of the app to identify and resolve any issues.

Required Qualifications:

1. Proven experience as a Mobile App Developer with a strong portfolio of completed projects.
2. Proficiency in programming languages such as Swift (for iOS) and/or Kotlin (for Android).
3. Extensive experience in developing offline-capable mobile applications with data collection functionalities.
4. Familiarity with databases and data storage solutions optimized for offline usage.
5. In-depth knowledge of mobile UI/UX design principles to create an intuitive and user-friendly interface.
6. Strong problem-solving skills and meticulous attention to detail.

7. Ability to work collaboratively in a team environment, effectively communicating ideas and solutions.

Preferred Qualifications/Skills:

1. Developers owning a registered company with a track record of successful app development projects are preferred.
2. Experience with cross-platform app development frameworks like React Native or Flutter will be an added advantage.
3. Knowledge of backend development and APIs for data synchronization is a plus.

How to Apply:

Interested candidates are invited to submit their application proposal, including a motivation letter, detailed CV/portfolio showcasing relevant completed projects, and any relevant project references, to apply@trco.or.tz

When submitting your application, ensure the subject line is written “**Mobile App Development**”. Also ensure your documents are submitted in pdf format and zipped in one folder.

Deadline for Applications:

All applications should reach us by 23:59 Tanzanian Local time on **20th August 2023**.
Late applications will not be considered.

Note:

Only shortlisted candidates will be contacted for further evaluation.

For enquiries only: please, contact us through email address info@trco.or.tz