Habitat for Humanity®
Nepal

Consultancy Announcement: On-Call Service Provider (Web portal Developer)
Date of Announcement: October 28, 2016
Duration: Initial 2 months, thereafter estimated a day per week (12 Months)
Location: Sanepa Chowk, Kathmandu

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1. Summary

We are currently seeking a service provider Web portal developer to support surveying and mapping efforts of Habitat for Humanity's construction initiatives in Nepal. The agency will work closely with the existing technical team while the infrastructure is being created to learn its technical specifications and any best practices.

Moreover, the workload will entail basic CRUD, visualization and web maps development within one month as a first phase. The process for automation shall be developed in the second phase which will contain one month of development phase and training. The progress should be updated every week in the form of demonstration. Regarding payment, it can be discussed further.

Once the environment is functional and stable, the agency will assume administrative responsibilities including planned maintenance and ad-hoc technical support. The stack used in this project will be hosted in Amazon Web Services and uses EC2 servers.

2. Background

Following last year's earthquakes, Habitat for Humanity Nepal mobilized volunteers to remove rubble, distribute temporary shelter kits and water backpacks in the worst-hit districts. Later in the reconstruction phase, Habitat Nepal completed safety assessments of more than 16,000 damaged houses, and with the onset of winter, over 2,400 winterization kits were distributed to help survivors weather the cold.

Habitat Nepal is now looking forward to support families in rebuilding through an owner-driven approach in both disaster-affected and non-affected areas. Further, Habitat Nepal has recently launched a Geographic Information System (GIS) mapping initiative to support reconstruction efforts. The geographic data that the system yields will enable Habitat Nepal to identify and monitor the construction progress and other program activities for families who will rebuild their homes under an owner-driven approach.

3. **Technical background**

The open map kit server is already set up in AWS EC2 instance and it is used for fetching data to database from surveying. The baseline surveying is already completed and the data are in the server itself. It is uploaded to server from android application (open map kit) and the process will be done on regular basis during M & E phases. The next phase of task to complete is to develop a web portal for data presentation and management. The web portal should contain web maps, visual graphics and CRUD table.

The web portal to be designed should also contain drag and drop elements- if new project or survey is added, the map layer, and dashboard should be updated automatically with less human workout.

4. **Objectives for the role**
- Develop and administer web portal services
- Ensure uptime and proper functionality of AWS EC2 instances
- Provide ad-hoc troubleshooting support
- Develop scripts to automate processes as needed
- Perform routine upgrades of web portal and Open Map Kit server software

5. **Qualifications, professional experience and skills**
- Experience working with Amazon Web Services or similar environments (Heroku etc.)
- Experience in Python frameworks or PHP framework and JavaScript mapping libraries e.g. Leaflet 1.0.
- Experience of SQL and database administration
- Knowledge in Python, in particular process automation
- Strong ability to understand technical requirements and ad-hoc technical support

How to Apply: Interested agencies are requested to submit a Letter of Interest, with updated organization profile, technical proposal and a financial proposal with significant breakdown no later than, 5.00 PM, November 9, 2016 to HFH Nepal by e-mail: vacancy@habitatnepal.org

Only shortlisted candidates will be called for interviews.