Abstract

Medical emergencies arise at any time or anywhere. During medical emergencies blood transfusion may be required to treat patients. The hospitals and clinics especially in Indian rural areas find it difficult to obtain blood instantaneously, especially of negative or rare blood group types [1]. The problem is more severe, when life is lost due to unavailability of blood supply. To solve this, several solutions have been proposed by various Authors; wherein the blood donor’s static contact details is maintained by several agencies or blood banks [2]. However these solutions were not adequate, as it provides list of donors based on the
A Geo-Location based Mobile Service that Dynamically Locates and Notifies the nearest Blood Donors for Blood Donation during Medical Emergencies

static contact location of the donors, as provided during registration. Whereas in real scenario, the actual location of the donor could be far away from the patient’s site. This paper has proposed a system for dynamically locating and notifying the nearest donors for blood requirement. The system tracks the location of donors (volunteers) through GPS or Mobile Network Location and allows requestor to search nearest donors based on their actual location at the time of need. This proposed solution provides a reliable method of locating Blood donors especially in distant rural areas, where few blood banks are available.

References

- S. Reporter, "Only 81 Blood banks in Rural areas in india," The Hindu, 16 December 2012.
- L. Vogel, "Android BroadcastReceiver Tutorial".

Index Terms

Computer Science Communications
Keywords

- Mobile Application to locate nearest Blood Donors
- GPS based tracking of Blood Donors' Geo-location
- Android based solution to find nearby Blood Donors
- and SMS based Help Confirmation.