

## ONLINE BLOOD BANK

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### ABSTRACT

**Keywords:** *Blood Transfusion, Blood Bank, Blood Donors, Networked Database.*

**Introduction:** The blood is specialized bodily fluid that delivers necessary substances to the body's cells such as nutrients and oxygen. Blood banking is a cache, gathered as a result of blood donation, stored and preserved for later use in blood transfusions. In addition to this, the blood type of patients also needs to be determined for compatibility sake for a blood transfusion. It is possible in some situations that the patient is unable to get the required amount of blood at right time due to lack of interrelationship in form of a networked database among the blood banks which leads to the lack of knowledge of updated record of all blood donors. Today mobile and mobile based applications have become a part of our day to day life. This Android application is developed to easily search for blood in nearby areas for emergency. In this Android application one will get clear access to blood in real time and right place.

### **Objective:**

1. To build a system using which user can search different types of blood group by entering required one. If it's in stock then they can order blood packages else they can request with donors.
2. To help select the nearby hospital and donors online instantly by tracing its location using GPS.

### **Methodology:**

- Android: Android is a mobile operating system (OS) based on the Linux kernel and currently developed by Google. With a user interface based on direct manipulation, Android is designed primarily for touch screen mobile devices.
- MY SQL: MySQL, officially, but also called "My Sequel" is the world's most widely used open-source relational database management system.
- Angular 2: AngularJS is a JavaScript-based open source front-end web application framework.
- Google Map API: Google Maps is a Web-based service that provides detailed information about geographical regions and sites around the world.

### **Result and Conclusions:**

- Efficient and Reliable android application for blood bank.
- It reduces the time to a greater extent which is searching for the required blood through blood banks and hospitals.