**BloodMe**

**Abstract**

There is a steady increase in blood donation requests and seeking blood donors. Finding blood donor is a challenging issue in almost everywhere. There are some blood donor finder applications in the market. However, more reliable applications that meet the needs of users are prompted. BLOODME is android mobile application to help the potential users with urgent blood supply.

Blood is a vital element of human body. Finding a blood within a limited group of people in limited time is extremely difficult. BLOOME application provides a reliable platform to connect local blood donors with patients. BLOOME creates a communication channel through a app whenever a patient needs blood donation. The targeted users are people who needs blood and the people who wants to donate the blood in nearby city based on their location.

**Methods**

Different software tools and technologies including languages and framework are used to develop our blood-provider mobile application known as BLOOME application. These technologies comprise Java programming language and Google Firebase for database that are used. Android Studio is open source mobile app development platform that makes it possible to quickly and easily create data-based web applications.

The application is comprised of different functionalities such as ‘Signup’, ‘Login’, ‘Blood Request’, ‘Blood Donate’, and ‘Forget Password’.

‘Blood Request’

‘Blood Request’ is one of the major functionalities in BLOODME app. When a patient needs a blood, user will register with the patient’s information such as Name, Age, Blood group and Address. Once they provide with all the necessary information, they can request their desired blood. If there is matching blood group in the database, the app will show the information about the blood donors. Then, requester can directly contact to donors and get the desired blood.

**Results**

The BLOOME application have different types of users including requester, donor, and administrator. Various features of the application are described, and their needs of use are analyzed. If a patient needs a blood, blood donors in vicinity can be contacted through using our app based on their location. Registered donors will get notification for the blood requests only if their blood group is compatible with the requested blood type and in the same city/region. Then matching blood donors can go to the hospital/clinic and donate.

**Conclusions**

The primary motto of BLOOME application is to create a platform to connect local blood donors with patients. It is a useful tool to find compatible blood donors who can receive blood request posts in their local area. The application will have a feature of ‘Special Notification’ that will be sent to donors who have the same blood group and from the same area as well as to requesters if matched.