**Abstract**

**Blood Donation**

Team Number: 4

Team Members:

1. Prasanna Muppidi (33)
2. Santhosh Mohan (35)
3. Anudeep Pandiri (40)

**Overview**:

Blood is one of the most critical things people need at emergencies. A lot of times, we have seen people struggle for blood at the times it’s most needed. There are lot of blood donation camps available in every city but what happens a lot of times is the wastage of blood because blood needs to be stored in a very significant way and the lifetime of the blood in bottles is less. This made us think about an online application which helps people finding instant blood donors.

Our Android application on blood donation helps the users to find the donor for a particular blood group in a particular location in the easiest way possible. All the donors who wish to donate blood are supposed to enter their details in the application. The details include their Name, Age, Contact number, Email ID, Location (ZIP Code) and most importantly their blood group.

The recipients who wish to receive blood should login to the application with their mobile number and are supposed to search the forum based on the required blood group and the location, they can contact the donor for further details.

It’s a simple application which doesn’t ask the users for unnecessary information. The donors are sorted based on the blood group and their location which makes the recipients easy while searching.

**Technologies Used:**

ADT: Android Studio

Programming language: JAVA

Database: SQLite/MySQL

Frontend: XML, JavaScript

There are other applications similar to our application. The following are the links for those applications.

1. <https://play.google.com/store/apps/details?id=com.cube.arc.blood&hl=en>
2. <https://play.google.com/store/apps/details?id=com.ibd.blooddonorapp&hl=en>

**Backup Project**: Steps counter

In this application we show the users the location, distance covered, speed, burned calories, steps taken for a particular amount of time and the total number of steps taken. It helps the users in the fitness control which have being a recent problem for all the teens and adult. We use pedometer in the application which actually counts and calculates based on the sensors available in it.

**Technologies used**: Android Studio, SQLite, XML, JavaScript and JAVA.

**References**:

1. <http://developer.android.com/sdk/index.html>
2. <http://developer.android.com/training/basics/data-storage/databases.html>
3. <http://projectsgeek.com/2013/10/online-blood-donation-management-system-project.html>
4. <https://guides.github.com/>