***Southeast University (SEU)***

Department of Computer Science & Engineering (CSE)



Database Design Lab (CSE3012)

Blood Donation System

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**Project Overview:**

The name of our project is Blood Donation System. The main goal of our project is to build a reliable system on which the people of our country can rely on in case of emergencies. We want to build a user-friendly and understandable software experience as a big part of our country is still not habituated to technology that much. Our system will be simple and fast by which people can use our system quickly in emergencies. We wish to lessen the fear and remove helplessness from the mind of people when someone needs blood and wish that people rely on us and be tension free.

**Case Study:**

A few days ago, a friend of mine posted on social media looking for blood for her friend. So, I called many places to find blood and after some time, I did find the blood. I happen to know that his brother has blood cancer and he needs blood every now and then. It is very hard to find blood and when it happens frequently, a family cannot rest easily. Sometimes his condition gets severe suddenly and he needs blood immediately. Besides, a person needs a long interval after blood donation and cannot donate blood in that time. So, they have to find and list blood donors always which is very much of a hassle. The whole family always stays in fear

**Database Overview:**

We have mainly five entities or table for this project. Each of them is described below:

|  |  |
| --- | --- |
| **Database Tables** | **Description** |
| **Blood Group** | This table is for storing all the donors’ blood groups that are available. There are three columns in this table blood id, blood group and donor id. |
| **User** | This table is for storing user data. It has four attributes or columns they are user id, name, email, password and location. |
| **Donor** | Donor is a very important table for this project. It has seven different columns donor id, name, email, phone, password, blood group, age location. |
| **Blood Request** | Blood Request table is for strong all the current request from the user. It has four request id, user id, blood group, location id |
| **Location** | It contains location id, and name. |

**Functionality:**

**Donor:** Donor can register for blood donation and he/she will be sent a request for blood as well.

**User:** User can send requests for specific blood groups. Users can communicate with donors. They can also be a donor. Users send multiple blood requests in a single day.

**Customer/Audience:**

As this is a donation system so we don't have any customer. But we have audience. They are donors and users who is looking for blood. Now a days in our country there are lot of people need blood in emergency time so that time it will be very helpful for many people.

**Summary:**

Nowadays, rare group blood is very crucial for us, we are not able to manage blood within a short time. The application is helpful for those who are seeking for rare blood groups as well as need emergency blood within a short time. Using this application we can build a huge community for donating blood

**Schema Diagram:**

