ABSTRACT

The aim of this project is to create a website to facilitate blood donation especially for the student and faculty of Manipal University. The website will allow registration of donors and recipients. Once the blood is donated a record is stored in the data base. The recipient is then given the appropriate transfusion based on the blood types and bags available.

PROBLEM STATEMENT

The website is designed using the following components:

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| slno | component | usage |
| 1 | MySQl | Backend database |
| 2 | PHP | Server side script(establishes connection to database) |
| 3 | HTML | Webpage design |
| 4 | Apache | Application server |

The front end website will have the following options-

* Homepage,
* Become donor,
* Donate blood,
* Recipient,
* Get blood,
* Donor list.

1. Become donor : Registers the donors by capturing the details of the donor and stores the donor record in a donor relation. The DonorId (automated slno) is generated when the record is saved and this is the primary key (unique value to identify each tuple).
2. Recipient: Registers the recipient by capturing the details of the recipient and stores the recipient record in a recipient relation. The RecipientId (automated slno) is generated when the record is saved and this is the primary key (unique value to identify each tuple).
3. Donate blood: Allows donor to donate blood and records the bagcode in donorbloodbag relation(with the ‘available’ attribute = ’Y’). Bloodbag code has to be unique and serves as a primary key.
4. Get blood: Allows recipient to receive blood using the bags available(those bags which have ‘available’ as’Y’ )and records the bagcode in recipientbloodbag relation(available attribute for chosen blood bag updated to ‘N’ in donorbloodbag). Once the available becomes ‘N’ the blood bag will not be available for picking in future.
5. Donor list: gives us a list of all donors in the database along with their details in slno order of registration. This also allows us to deregister a donor if the delete icon is pressed. Correspondingly that record is deleted in database. The slnos in the display page are updated accordingly.