BLOOD DONATION SYSTEM

DMBS Mini-Project

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Abstract

The project aims at providing an operation interface for Blood Donation System. It provides a platform to allow the operators, who do not have technical knowledge to handle database through SQL queries by using simple website interface.

The project uses web technologies including HTML, CSS, Javascript (jQuery) for front-end and at the backend the Database is handled using PHP and AJAX with MySQL for Database operations.

The following operations are made available to the system operators:

1. Search (Implemented basic database select operations)
2. Add (Implemented basic database insert operations)
3. Edit (Implemented basic database edit operations)
4. Delete (Implemented basic database delete operations)

Search

Here the operator can search for Blood donors using their names.

Then search is also possible also on the blood availability of particular type in all the branches present in the system.

Also, we can search for blood availability in a particular city under all the branches throughout the city.

Add

Donor details can be added to the database by using this tab.

Edit

Editing is made possible by searching any Donor by his name and then editing the table entry there itself and click the done button to update.
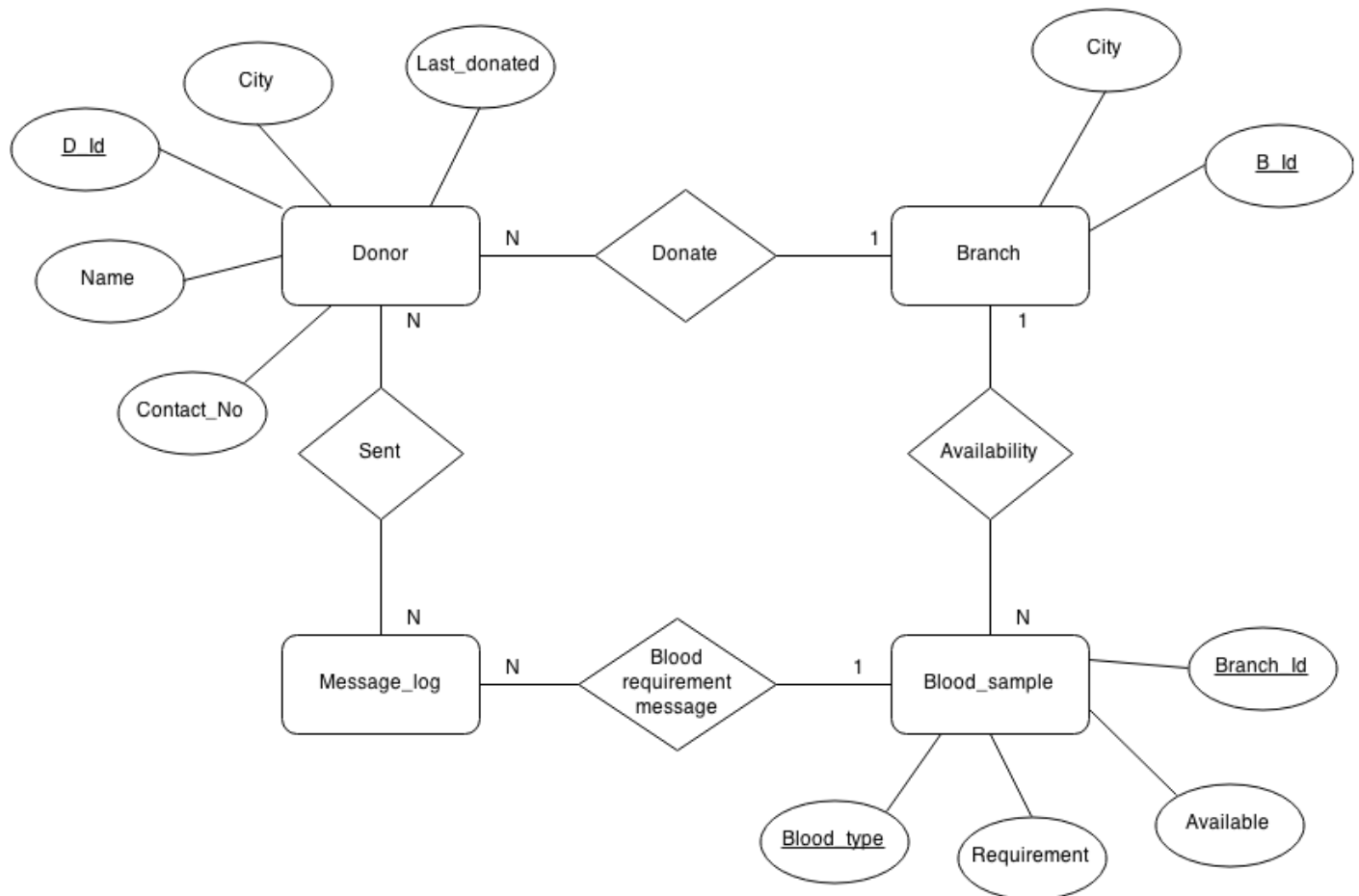
Delete

Click the delete button for any Donor searched by his name to delete that entry.

Messaging System

At each level it is checked whether the blood availability is enough for that branch and if it is less than the required value for that branch, a lookup is made to get all the donors who have previously donated blood.

After the lookup, these donors are sent messages informing that the branch requires blood of certain blood group and they can visit. As the messages are sent to the donors, they are logged into a table *Message_Log* to keep a record of all the messages sent.

ER Diagram

Schemas

Screenshots

Main Page

Search results for Donor Name
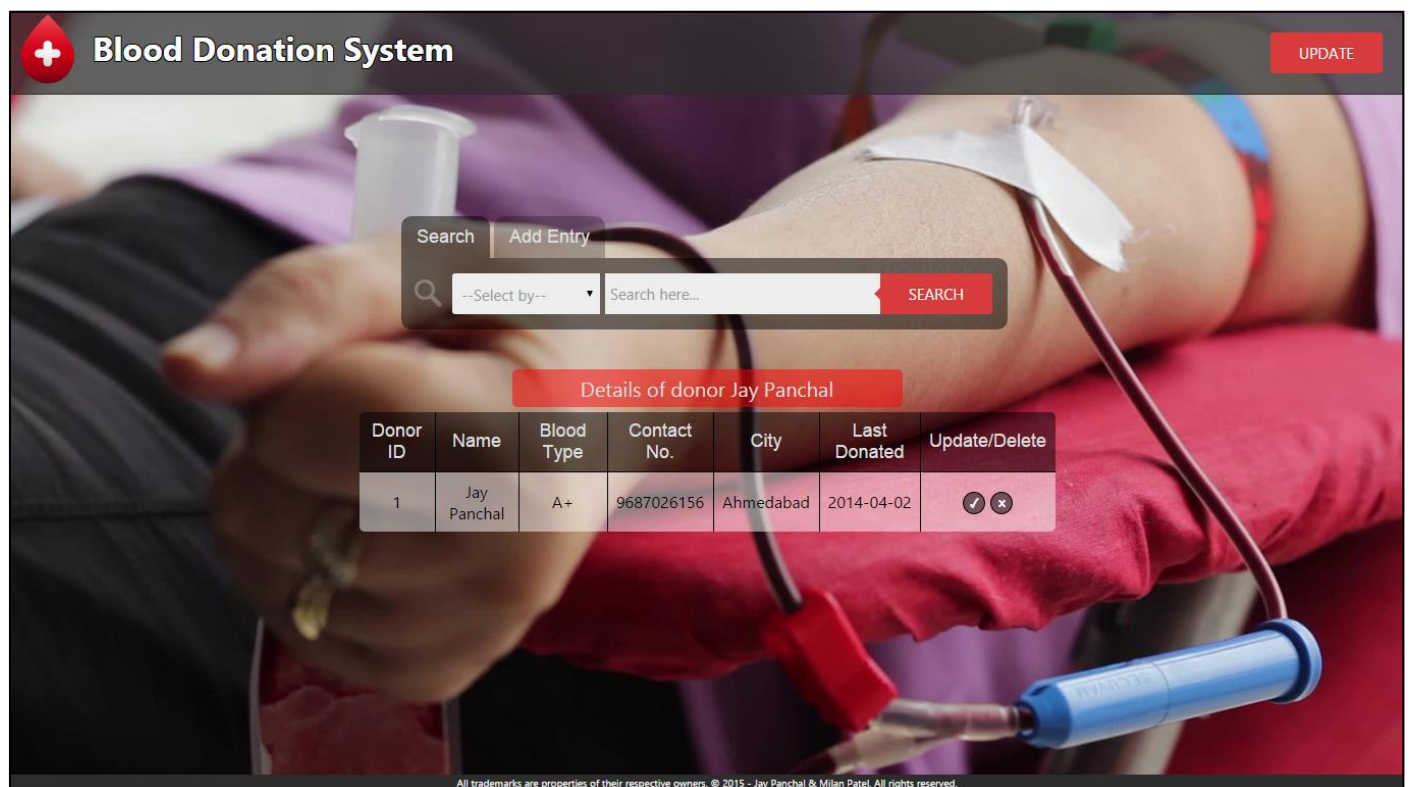
Search results for City blood availability

Blood Donation System — UPDATE

Search | Add Entry

--Select by-- | Search here... | SEARCH

Branches in the city Ahmedabad have below blood collection

Branch ID	Blood Type	Availability
1	A+	88
1	A-	92
1	AB+	64
1	AB-	93
1	B+	95
1	B-	5
1	O+	27
1	O-	23

Search results for Blood type availability

Blood Donation System — UPDATE

Search | Add Entry

--Select by-- | Search here... | SEARCH

Availability of A+ blood

Branch ID	Availability
1	88
2	51
3	91
4	5
5	52
6	44
7	65

Add Donors to Database

Update Donor Entry

Delete Donor Entry