

Bangladesh University of Business and Technology

(BUBT)



Project Proposal

Project Name : Blood Bank Management System

Course Title : Database System Lab

Course Code : CSE 208

Submitted To:

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Objective

The main objective of this project is to create a desktop-based application that can store information about its users and the donors of the blood bank, also store blood bags and update the details of its inventory.

Project idea

Currently, dengue has become an epidemic in Bangladesh. Due to this many people are suffering from anemia and platelet deficiency. Finding the necessary blood has become difficult. People often post online or message their group for necessary blood but it doesn't help them much. Some organizations even maintain a list of donors and their details but often they are not updated. It is one of the major reasons why we have decided to make a blood bank management system. Our purpose is to make an application where admins can add or remove details of donors and admin or users can login to update their details. In this way we can help patients with safe blood supply when they are needed.

Features

The key features of this project are:

- **Login:** Users/admins can login to their accounts.
- **Update user details:** Admins can update their information of their accounts.
- **Update donor details:** Admins can add and update the donor's information.
- **Dashboard:** Number of donors of each blood group is shown.
- **Inventory:** Number of bags of each blood group is shown. The numbers are updated when new supply of blood comes in the blood bank or blood is donated to someone from the bank.

Schema Definition & Diagram

tbl_users (user_id, username, email, password, full_name, contact, address, added_date)

tbl_donors (donor_id, first_name, last_name, email, contact, gender, address, blood_group, added_date, added_by)

stock (bd_id, blood_group, quantity)

tbl_users	tbl_donors	stock
<u>user_id</u>	<u>donor_id</u>	<u>bd_id</u>
username	first_name	blood_group
email	last_name	quantity
password	email	
full_name	contact	
contact	gender	
address	address	
added_date	blood_group	
	added_date	
	added_by	

Fig: schema diagram.