CS2006-
INTRODUCTION TO DATA MANAGEMENT

PROJECT REPORT

BLOOD BANK SYSTEM

TEAM:

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TITLE: BLOOD BANK SYSTEM

PROBLEM STATEMENT : Addressing Inefficiencies in Blood Supply Coordination during Emergencies.

PROBLEM DESCRIPTION: Ensuring a secure and sufficient blood supply is critical to minimizing morbidity and mortality rates in healthcare facilities.

Shockingly, every two seconds, an individual in India requires a blood transfusion,
resulting in over 12,000 daily deaths due to unavailability.

Moreover, one in every four maternal deaths in India is attributed to excessive blood loss, underlining the prevalent issue of blood shortages in hospitals.

During medical emergencies, particularly those necessitating immediate blood transfusions, there is a pressing need for seamless coordination between blood donors and recipients.

Unfortunately, existing systems lack a streamlined approach, leading to life-saving interventions being delayed.
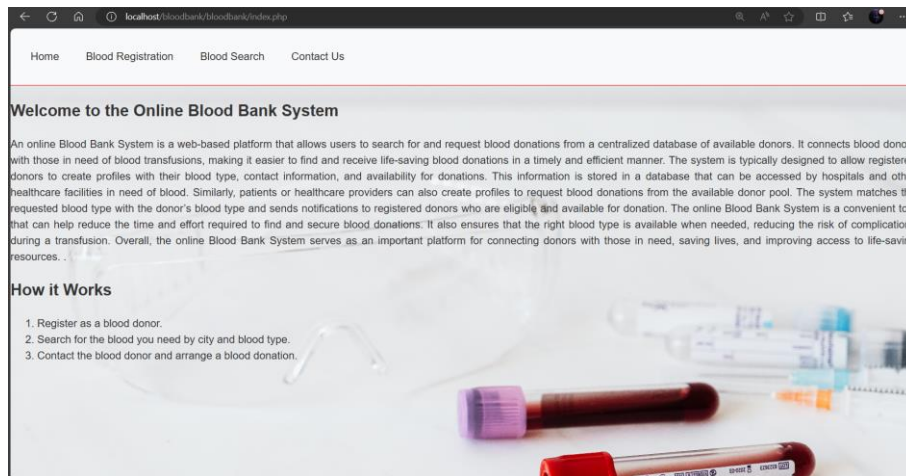
This project endeavors to rectify this by developing a web application that expeditiously and accurately matches available blood donors with patients in urgent need.

ER – DIAGRAM :
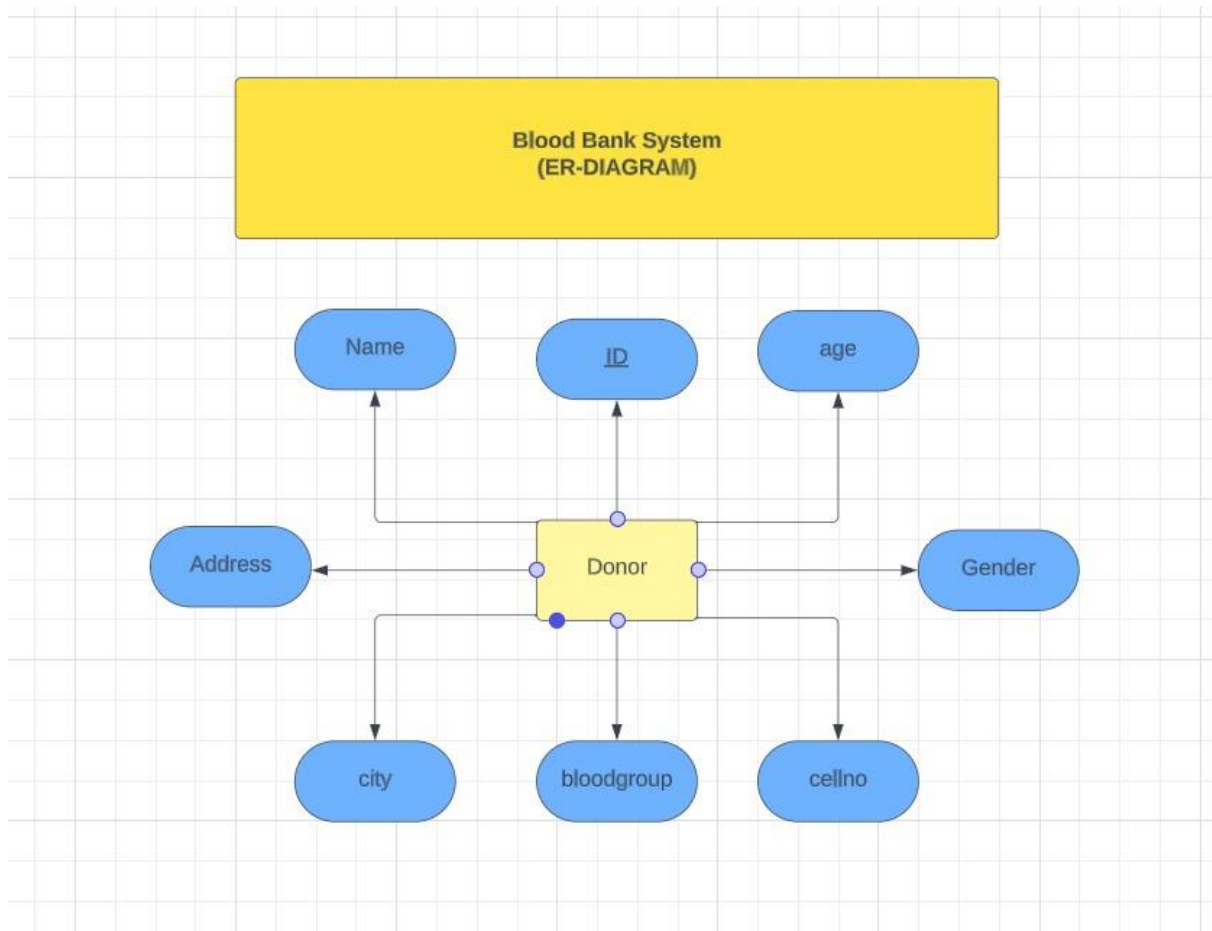
IMPLEMENTATION

HOME PAGE

Home page which acts as a gateway to all of the other parts of the web portal
It is made of anchor tags directing to the other parts of the web and paragraph elements
that give description of the web.

BLOOD DONOR REGISTRATION

This is a page where the willing donors will register with their details such as contact details
,biodetails and ofcourse blood group. Which will be retrived using the form HTML element
and sent to the server.

BLOOD SEARCH
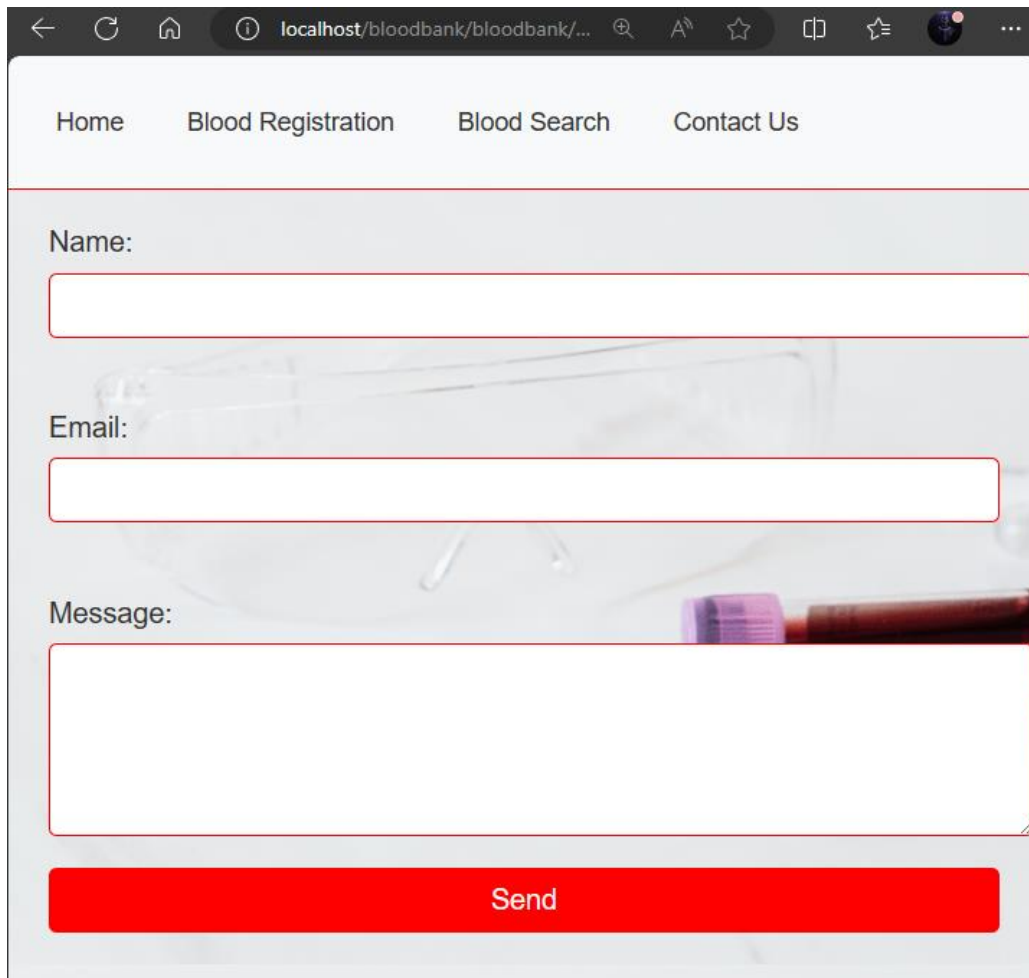
Through this page one who is in the need of blood will enter their desired city and blood group . which will run a search query in database and return the potential donor details .

CONTACT US

This helps user to reach out to us for any feedback or queries
.

RELATIONAL TABLE:

- **User_ID** : int data type , unique and **User_ID** is a primary key.
- **Name** : varchar data type
- **Age**: int data type
- **Gender**: varchar data type (male , female, other)
- **Blood Group** : varchar data type (A-,A+,B+,B-,AB+,AB-,O+,O-)
- **City**: varchar data type , size 50
- **Cellno**: bigint data type , size 10
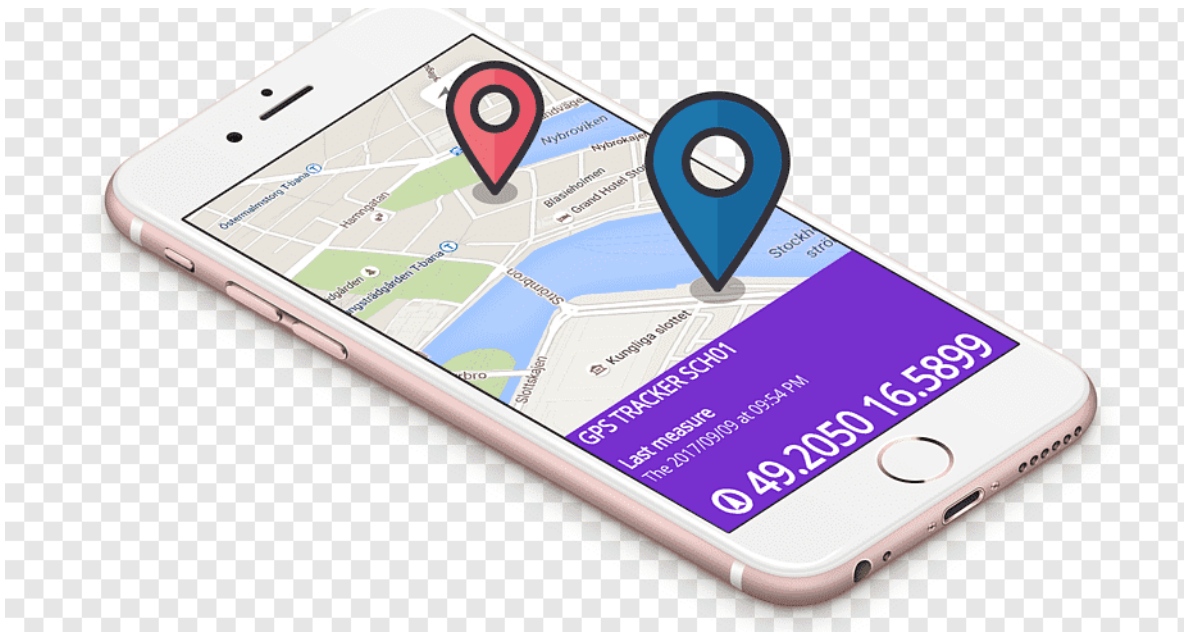- **Address**: varchar data type , size 100

FUTURE ENHANCEMENT:

DATA SECURITY

This application is a basic form and user data security is important aspect . which will be enhanced by including multiple views and appropriate technology .

GEO LOCATION FACILITY

This will provide the geo location map with all the potential donors shown on Map (can be done using APIs)and an algorithm that generates the details of nearest potential donor .

CONCLUSION:

This is a basic web application connected to data server via xampp. This application model is on BLOOD DONATION SYSTEM . Which can be developed through various other technologies or algorithms . Here we register donors and connect them to the people who are in need on the basis of blood type and address.