

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.

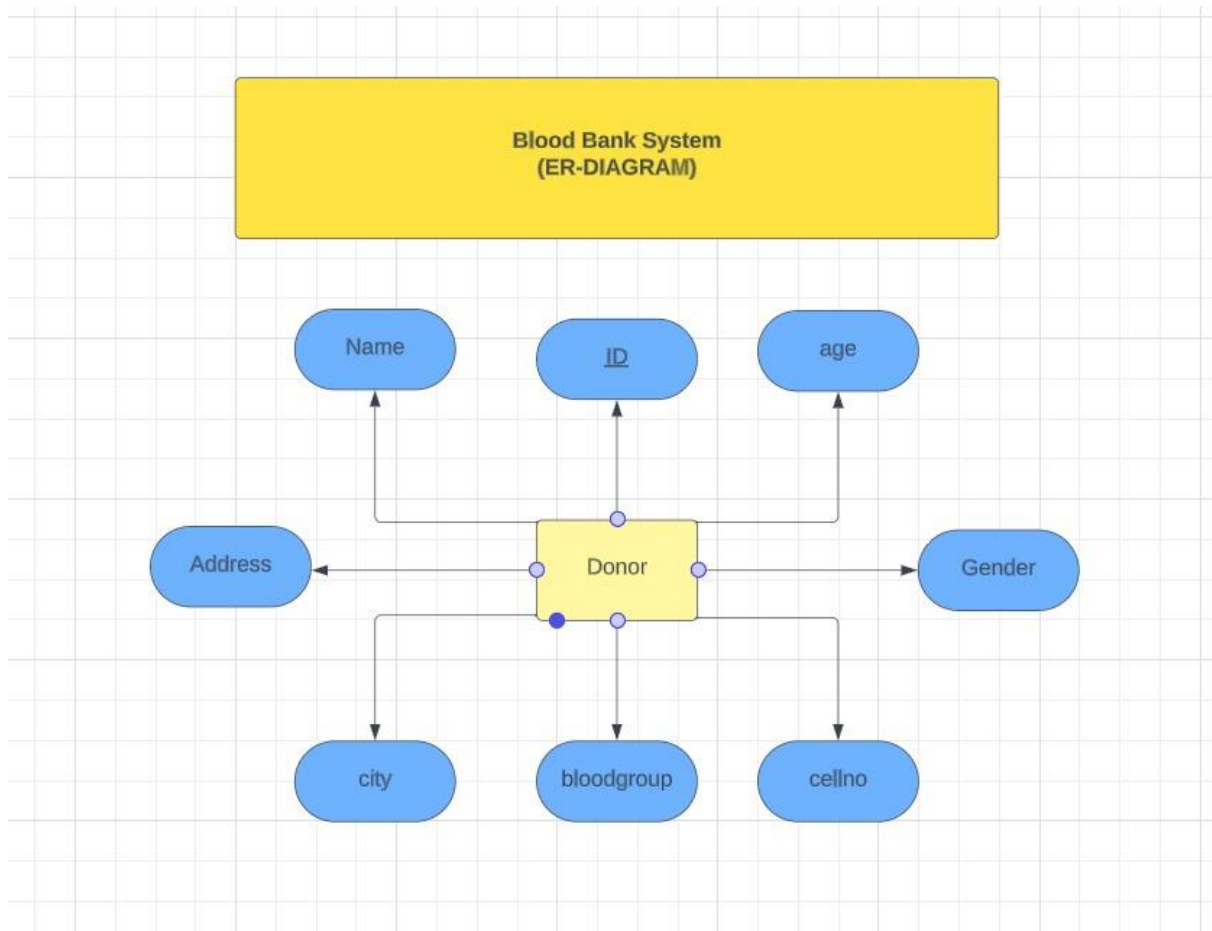
Moreover, one in every four maternal deaths in India is attributed to excessive blood loss, underlining the prevalent issue of blood shortages in hospitals.

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.

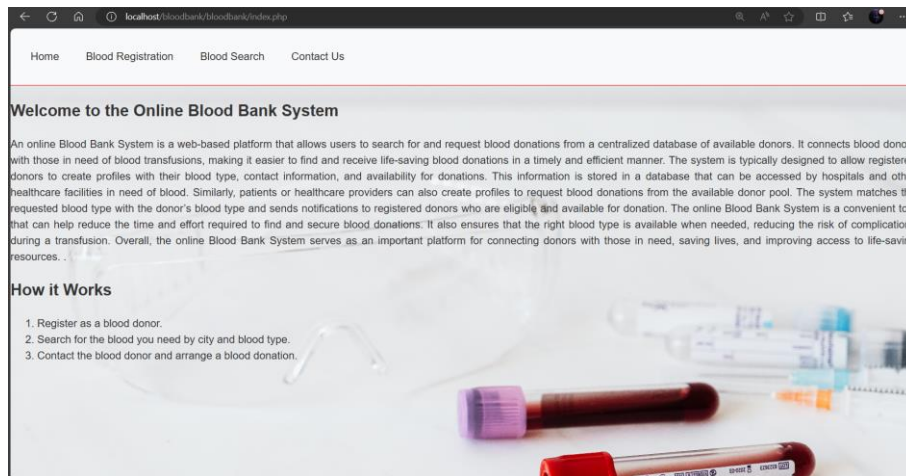
This project endeavors to rectify this by developing a web application that expeditiously and accurately matches available blood donors with patients in urgent need.

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

A screenshot of a web browser displaying the 'Blood Donor Registration' form. The browser's address bar shows 'localhost/bloodbank/bloodbank/registration.php'. The page has a navigation menu with links: 'Home', 'Blood Registration', 'Blood Search', and 'Contact Us'. The form contains several input fields: 'Name:', 'Age:', 'Gender:' (with a dropdown menu showing 'Male'), 'Blood Group:' (with a dropdown menu showing 'A+'), 'City:', 'Cell No:', and 'Address:'. Each field is represented by a white rectangular box with a red border. At the bottom of the form is a red 'Submit' button. The background of the page shows a pair of safety glasses and several blood test tubes.

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

BLOOD SEARCH

← ↻ 🏠 ⓘ localhost/bloodbank/bloodbank/... 🔍 A ☆ 📄 ☆ 🌐 ...

Home Blood Registration Blood Search Contact Us

Blood Search

City:

Select a City ▼

Blood Group:

Select a Blood Group ▼

Search

← → ↻ 🏠 ⓘ localhost/bloodbank/bloodbank/... 🔍 A ☆ 📄 ☆ 🌐 ...

Home Blood Registration Blood Search Contact Us

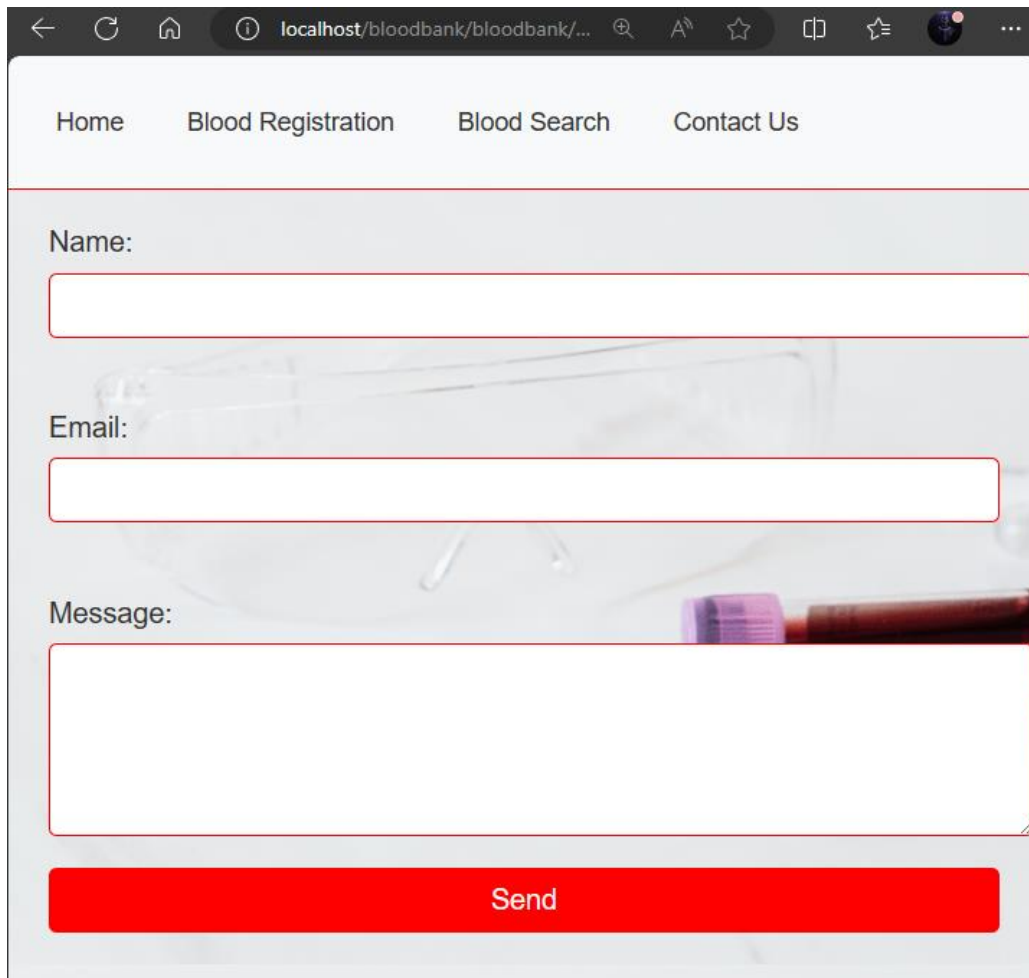
Blood Bank Search Results

Name	Age	Gender	Blood Group	City	Cell No.	Address
ravi	25	male	A+	Warangal	+956633322222	jeen nagar
jayam	22	male	A+	Warangal	0347-5500728	kazipet
Srina	36	male	A+	Warangal	03327082287	Minda town

Print

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



← ↻ 🏠 ⓘ localhost/bloodbank/bloodbank/... 🔍 A ☆ 📄 ☆ 🌐 ...

Home Blood Registration Blood Search Contact Us

Name:

Email:

Message:

Send

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

RELATIONAL TABLE:

Server: localhost » Database: bloodbank » Table: donors

BrowseStructureSQLSearchInsertExportImportPrivilegesOperationsTriggers

			id	name	age	gender	bloodgroup	city	cellno	address
<input type="checkbox"/>	Edit	Copy	Delete	1	Vivek	36	male	A+	Hyderabad	+923327082287 puri colony
<input type="checkbox"/>	Edit	Copy	Delete	2	Amit	36	male	B+	Warangal	+956633322222 hanmakonda
<input type="checkbox"/>	Edit	Copy	Delete	3	Suresh	45	male	B-	chennai	033312555222 anna Nagar
<input type="checkbox"/>	Edit	Copy	Delete	4	Kamran	30	male	B+	Hyderabad	5454545454 Shamshabad
<input type="checkbox"/>	Edit	Copy	Delete	5	ravi	25	male	A+	Warangal	+956633322222 jeen nagar
<input type="checkbox"/>	Edit	Copy	Delete	6	Pandiyarsan	45	male	B+	chennai	03168956221 adiyar
<input type="checkbox"/>	Edit	Copy	Delete	7	Sharath babu	36	male	A+	Chennai	0776778899 guidy
<input type="checkbox"/>	Edit	Copy	Delete	8	bejoey	20	male	O+	hyderabad	03406451477 lallaguda
<input type="checkbox"/>	Edit	Copy	Delete	9	dagaad	40	male	B+	Hyderabad	0334-8386679 kompally
<input type="checkbox"/>	Edit	Copy	Delete	10	AMeena	22	male	A+	Chennai	0347-5500728 turk nagar
<input type="checkbox"/>	Edit	Copy	Delete	11	jayam	22	male	A+	Warangal	0347-5500728 kazipet
<input type="checkbox"/>	Edit	Copy	Delete	12	Jk dhanush	22	male	A+	chennai	0347-5500728 nailur
<input type="checkbox"/>	Edit	Copy	Delete	13	Akhil	22	male	A+	Hyderabad	0347-5500728 kairathabad
<input type="checkbox"/>	Edit	Copy	Delete	14	Giri	22	male	A+	chennai	0347-5500728 OMr
<input type="checkbox"/>	Edit	Copy	Delete	15	Srina	36	male	A+	Warangal	03327082287 Minda town
<input type="checkbox"/>	Edit	Copy	Delete	16	Akshith Pagadala	19	male	A+	hyderabad	7075362164 H No 8-5-62/89 Flat No 204 Namratha Apartment Mal...

- **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

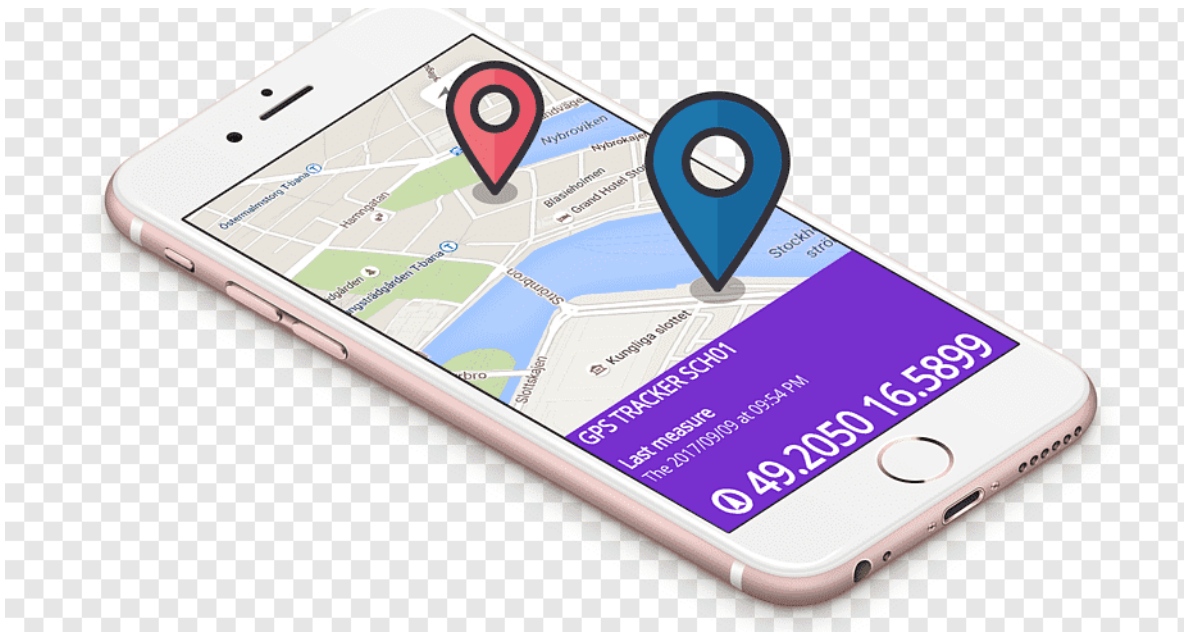
FUTURE ENHANCEMENT:

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.