

MINI PROJECT REPORT ON
“Blood Bank Database Management System”

SUBMITTED TO SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE
IN THE PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR
THE AWARD OF THE DEGREE

Bachelor of Engineering

in

Information Technology

Class: T.E

BY

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A.Y: 2022- 23

CHAPTER – 1

ABSTRACT

Technology is introducing new innovations day by day, thus reducing the time required to do things. The proposed system can be used to reduce the time required to deliver required blood to the needy in cases of emergency. It provides a way of communication and synchronization between the hospitals and the blood banks. It also provides them with the facility of communicating with the nearby donors in emergencies. The purpose of this study was to develop a blood management information system to assist in the management of blood donor records, seeker records, blood stock details and easy to control . The database is the single most useful setting for caching data, and it is also an ideal tool for contriving, managing, updating, and modifying data from different angles. The benefits of a well-structured blood bank database are limitless and yield the benefits of improving efficiency and saving time.

CHAPTER - 2

INTRODUCTION

Problem Statement:

To overcome the drawbacks of the previously existing Blood Donation Management system.

Objectives:

To overcome the drawbacks of the previously existing Blood Donation Management system. This web application allows you to access the whole information about Blood Bank Management Software, readily scalable and adaptable to meet the complex needs of Blood Banks Who are Key Facilitators for the Healthcare Sector, it also supports all the functionalities of Blood Bank.

The purpose of the System is used for maintaining whole information about campus.

Existing System:

- It is time consuming.
- It consumes a lot of manpower to better results.
- The lack of data security.
- Retrieval of data takes a lot of time.
- Percentage of accuracy is less.

Motivation

When it comes to the efficiency and high productivity of Blood Bank Management, we require a well-built management system which makes all work easy. Blood Bank Management System not only increases efficiency but also reduces the workload of employees by which it speeds up the management system. This System is useful while holding a Blood Donation Camp.

Chapter –3

Data Types

Data Type	Description
Int	It is a type of Exact Numeric Data Type. It's used to specify an integer value.
Varchar	It is a Character String Data Type. Its maximum length is 8000 characters and contains variable length non-Unicode characters.
Date	It is a subtype of Date & Time Datatype. It is used to store the year, month and days value
Time	It is a subtype of Date & Time Datatype. It is used to store the hour, minute and second values.

Blood_bank Employee_info Table

- EMP_ID: int
- EMP_NAME: Varchar

Blood Bank Database Management System

- EMP_GENDER: Varchar
- EMP_BG: Varchar
- EMP_CONTACT : Varchar
- EMP_EMAIL: Varchar
- EMP_ADD : Varchar
- EMP_USER_NAME: Varchar
- EMP_PASS: Varchar
- EMP_CPASS: Varchar

Blood_bank bloodstocks

- Stock_id : int
- Blood_g : Varchar
- Status : Varchar
- Quantity : int

Blood_bank donor_info Table

- D_ID : int
- D_NAME : Varchar
- D_DOB : date
- D_GENDER : Varchar
- D_BLOOD_GP : Varchar
- D_CONTACT_NO : Varchar
- D_EMAIL_ID : Varchar
- D_ADDRESS : Varchar

Blood Bank Database Management System

Blood_bank seeker_info Table

- S_ID : int
- S_NAME : Varchar
- S_CONTACT : Varchar
- P_NAME : Varchar
- P_DOB : date
- P_GENDER : Varchar
- P_BG : Varchar
- HOSPITAL_NAME:Varcar
- HOSPITAL_ADD:Varchar
- BLOOD_REQ_DATE :date

Blood_bank hospital_info Table

- H_ID : int
- H_NAME : Varchar
- BLOOD_REQ_DATE:date
- REQ_BLOOD_GP:Varchar
- NO_OF_UNITS : int
- H_CONTACT : Varchar
- H_EMAIL : Varchar
- H_ADD : Varchar

Chapter - 4

Data Requirements

Requirement Collection and Analysis:

This activity typically involves the end-users and donors and studying the existing documents to collect all possible information regarding the system. If the project involves automating some existing procedures.

The main purpose of this activity is to clearly understand the exact requirements of the donor. After the exact donor requirements are understood, the next step is to identify and resolve the various requirements problems.

Entity & Attributes

- Employee Info Entity:**

Employee info will be created as a table in MySQL having attributes EMP_ID , EMP_NAME , EMP_GENDER ,EMP_BG , EMP_CONTACT, EMP_EMAIL , EMP_ADD , EMP_USER_NAME , EMP_PASS , EMP_CPASS. Where EMP_ID is a primary key.

- Donar Info Entity:**

Donor Info will be created as a table in MySQL having attributes D_ID , D_NAME , D_DOB , D_GENDER , D_BLOOD_GP , D_CONTACT_NO , D_EMAIL_ID , D_ADDRESS Where D_ID is a primary key .

- **Seeker Info Entity :**

Seeker Info will be created as a table in MySQL having attribute S_ID , S_NAME , S_CONTACT , P_NAME , P_DOB : date , P_GENDER , P_BG , HOSPITAL_NAME , HOSPITAL_ADD , BLOOD_REQ_DATE Where S_ID is a primary key.

- **Hospital info Entity:**

Hospital Info will be created as a table in MySQL having attribute H_ID , H_NAME , BLOOD_REQ_DATE , REQ_BLOOD_GP ,NO_OF_UNITS , H_CONTACT , H_EMAIL , H_ADD Where H_ID is a primary key .

- **BloodStock Entity:**

Blood stock Info will be created as a table in MySQL having attribute Stock_id , Blood_g , Status , Quantity Where stock_id is a primary key .

Relationship Cardinality

- Many seekers request blood bank for blood.
- Many Hospitals request blood bank for blood.
- Donor donates blood.
- Blood bank employee updates bloodstock.
- Donor blood is stored in bloodstock.

Relationship Used:

- One-to-One Cardinality (1:1)
- Many-to-One Cardinality (m:1)

Chapter –5

E-R Diagram

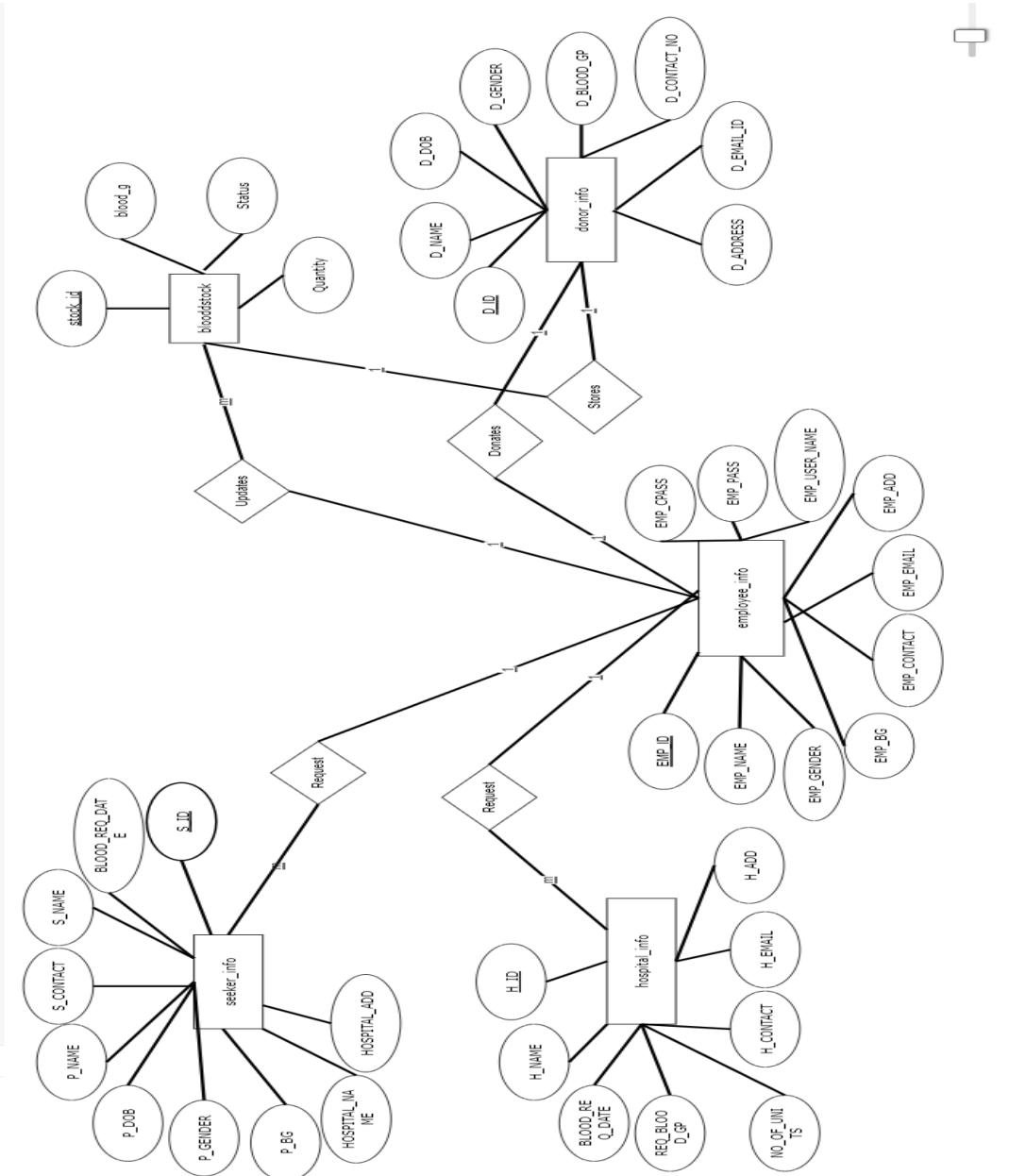


Fig 1 E-R Diagram of Blood Bank

Chapter - 6

Relational Database Design

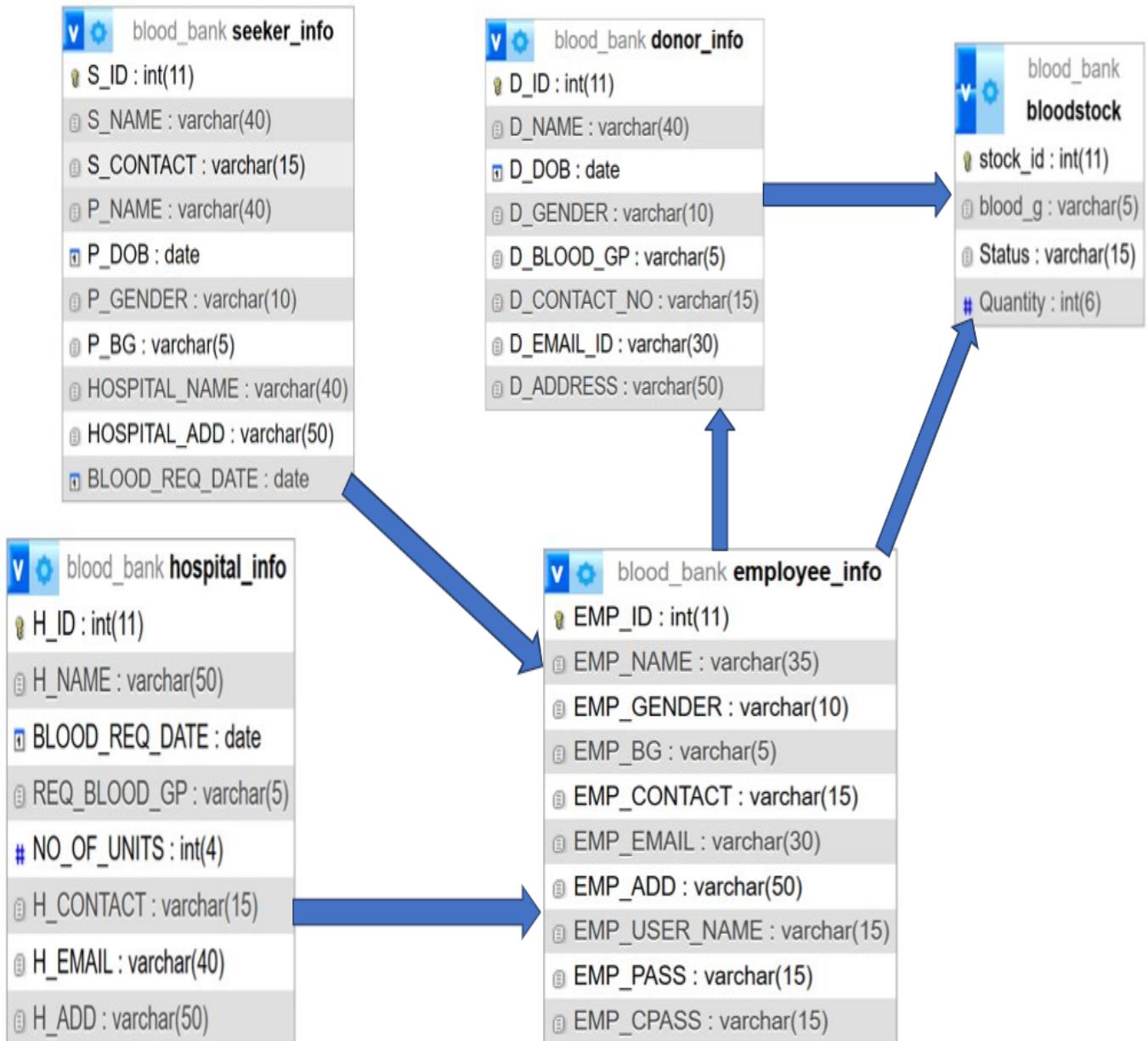


Fig 2 Relational Database Design of Blood Bank

Chapter - 7

Schema Diagram

1. Donor Details

D_ID	D_NAME	D_DOB	D_GENDER	D_BLOOD_GP	D_CONTACT_NO	D_EMAIL_ID	D_ADDRESS
------	--------	-------	----------	------------	--------------	------------	-----------

2. Hospital Details

H_ID	H_NAME	BLOOD_REQ_DATE	REQ_BLOOD_GP	NO_OF_UNITS	H_CONTACT	H_EMAIL	H_ADD
------	--------	----------------	--------------	-------------	-----------	---------	-------

3. Seeker Details

S_ID	S_NAME	S_CONTACT	P_NAME	P_DOB
------	--------	-----------	--------	-------

P_GENDER	P_BG	HOSPITAL_NAME	HOSPITAL_ADD	BLOOD_REQ_DATE
----------	------	---------------	--------------	----------------

4.Blood Stock Details

Stock_id	blood_g	status	Quantity
----------	---------	--------	----------

5.Employee Details

EMP_ID	EMP_NAME	EMP_GENDER	EMP_BG	EMP_CONTACT
--------	----------	------------	--------	-------------

EMP_EMAIL	EMP_ADD	EMP_USER_NAME	EMP_PASS	EMP_CPASS
-----------	---------	---------------	----------	-----------

Chapter - 8

Creating Database using MYSQL

Table	Action	Rows	Type	Collation	Size	Overhead
<input type="checkbox"/> bloodstock		8	InnoDB	latin1_swedish_ci	16.0 KiB	-
<input type="checkbox"/> donor_info		8	InnoDB	latin1_swedish_ci	16.0 KiB	-
<input type="checkbox"/> employee_info		6	InnoDB	latin1_swedish_ci	16.0 KiB	-
<input type="checkbox"/> hospital_info		4	InnoDB	latin1_swedish_ci	16.0 KiB	-
<input type="checkbox"/> seeker_info		3	InnoDB	latin1_swedish_ci	16.0 KiB	-
5 tables	Sum	29	InnoDB	utf8mb4_general_ci	80.0 KiB	0 B

Fig 3: Blood Bank Table Information

		stock_id	blood_g	Status	Quantity
<input type="checkbox"/>		1	A+ve	Available	50
<input type="checkbox"/>		2	A-ve	Available	15
<input type="checkbox"/>		3	B+ve	Available	30
<input type="checkbox"/>		4	B-ve	Available	28
<input type="checkbox"/>		5	AB+	Available	40
<input type="checkbox"/>		6	AB-	Available	50
<input type="checkbox"/>		7	O+	Available	70
<input type="checkbox"/>		8	O-	Available	20

Fig 4: Blood Stock Table

Blood Bank Database Management System

	D_ID	D_NAME	D_DOB	D_GENDER	D_BLOOD_GP	D_CONTACT_NO	D_EMAIL_ID	D_ADDRESS
3	1	ADITI KHADE	1996-07-06	female	A-ve	8978856485	aditikhade@gmail.com	KARVE NAGAR, PUNE.
3	3	Sahil Raje	2005-02-26	male	O+ve	5486571536	sahil@gmail.com	ferrw
3	4	samrudhi bhilare	2005-03-11	female	B-ve	8545245885	bhilarre@gmail.com	rgtedg
3	5	Jayesh Deshmukh	2001-06-06	male	B-ve	2115481555	assfs@gmail.com	fdhhjhdfghhtgf
3	6	Tanmay Tharkude	1997-06-05	male	B-ve	8642568741	tanmaythar17@gmail.com	Balapur Pune 57
3	7	Manthan Ghadshi	1998-08-20	male	B+ve	4523689652	manthanghadshi@gmail.com	Bavdhan , Pune-67
3	8	Kashmira Lohar	1999-06-23	female	O+ve	2563563256	kashmiralohar@gmail.com	Right bhusari kothrude,Pune -22
3	9	Parth Deshmukha	1998-02-18	male	O-ve	5878545254	parthuu@gmail.com	Manapa , Pune 27

Fig 5: Donor Information Table

	EMP_ID	EMP_NAME	EMP_GENDER	EMP_BG	EMP_CONTACT	EMP_EMAIL	EMP_ADD	EMP_USER_NAME	EMP_PASS	EMP_CPASS
3	1	Sam Manchekar	female	O+ve	9898854455	sammanchekar@gmail.com	Kothrud, Pune-38.	sam_man_123	123456	123456
3	4	Jayesh Deshmukh	male	AB-ve	2542424244	jayesh@gmail.com	Narhe ,Pune	jay_2003	2003	2003
3	6	Sanalp Manchekar	male	O+ve	4588526584	sankalp@gmail.com	Kothrude Pune 24	sankalp_1404	1404	1404
3	7	Apeksha Deshmukha	female	A+ve	4452289652	apeksha@gmail.com	Bhugav ,Pune 25	Apeksha_9876	9876	9876
3	8	Sujal kamana	male	O-ve	7512512548	sujal123@gmail.com	Pimpri ,Pune 26	sujal_3456	3456	3456
3	9	Sahil Raje	male	B+ve	7512563214	sahil45@gmail.com	Pimpri road ,Pune	sahil_1987	1987	1987

Fig 6: Employee Information Table

Blood Bank Database Management System

H_ID	H_NAME	BLOOD_REQ_DATE	REQ_BLOOD_GP	NO_OF_UNITS	H_CONTACT	H_EMAIL	H_ADD
1	Krishna Memorial Hospital	2023-06-05	O+ve	15	0207859963	krishnamemorialhospital@gmail.com	Sus Road, Karve Nagar, Pune.
2	Rishta Hospital	2023-04-05	AB-ve	30	5135485516	rishtahospital@gmail.com	Dp Road,Pune 43
3	Sayadni Hospital	2023-04-19	O-ve	40	7321578965	sayadrihospital@gmail.com	Deccan Pune,15
4	Khrushna Hospital	2023-04-11	B-ve	50	1286572357	Krushnahospital@gmail.com	Camp ,Pune 56

Fig 7: Hospital Information Table

S_ID	S_NAME	S_CONTACT	P_NAME	P_DOB	P_GENDER	P_BG	HOSPITAL_NAME	HOSPITAL_ADD	BLOOD_REQ_DATE
4	Samrudhi Manchekar	7845254852	Sankalp Manchekar	2000-03-04	male	A-ve	Poona Hospital	Shivaji Road ,Pune 35	2023-04-13
5	Kashmira Lohar	4521145874	Vedant Lohar	1993-03-10	male	AB-ve	Poona Hospital	Vishrant Wadi ,Pune 35	2023-04-12
6	Samrudhi Kulkarni	4988956648	Prathmesh Kulkarni	2000-03-10	male	AB-ve	Syadri Hospital,Pune 41	Deccan ,Pune	2023-04-06

Fig 8: Seeker Information Table

Blood Bank Database Management System



Fig 9: Home Page of Blood Bank



Fig 10: Event Page

Blood Bank Database Management System

The screenshot shows a registration form titled "Hospital Requirements". The form is titled "Register Here" and contains the following fields:

- Hospital Name :
- Blood Requirement Date :
- Required Blood Group :
- Number of Units :
- Hospital Contact No :
- Hospital Email Id :
- Hospital Address :

At the bottom are "Submit" and "Reset" buttons.

Fig 11: Hospital Registration Form Page / Dashboard Page

The screenshot shows a registration form titled "Seeker Registration Form". The form is titled "Register Here" and contains the following fields:

- Seeker Name :
- Contact No :
- Patient Name :
- Patient Date Of Birth :
- Patient Gender : Male Female Other
- Patient Blood Group :
- Hospital Name :
- Hospital Address :
- Blood Requirement Date :

At the bottom are "Submit" and "Reset" buttons.

Fig 12: Seeker Registration Form Page / Dashboard Page

The screenshot shows the "About Us" page for "Life Saviour Blood Bank". The page features a large red blood drop logo at the top left. The title "Life Saviour Blood Bank" is in red, and "About Us" is in black. The navigation bar at the top includes links for Home, Events, About Us, Contact Us, Sign Up, and Log In.

About Us

Life saviour Blood Bank was first recognised by Mr.Prathmesh Kardiya. Our Blood Bank has successfully completed its 5 years in the welfare of society. Our Blood Bank was established in 2015 and our main motto is "A Small Step Towards Blood Donation Can Give Life To Someone's Special." We have organised our camps across various places in our country and have received a good response.

Blood banking refers to the process of collecting, separating, and storing blood. Blood banks collect blood and separate it into its various components so they can be used most effectively according to the needs of the patient. Red blood cells carry oxygen, platelets help the blood clot, and plasma has specific proteins that allow proper regulation of coagulation and healing.

"Blood is the vital connection to having a healthy body, and according to the American Red Cross, nearly 5 million people receive blood transfusions each year."

Fig 13: About us Page

Blood Bank Database Management System



Fig 14: Contact Us Page



Fig 15: Sign Up Page

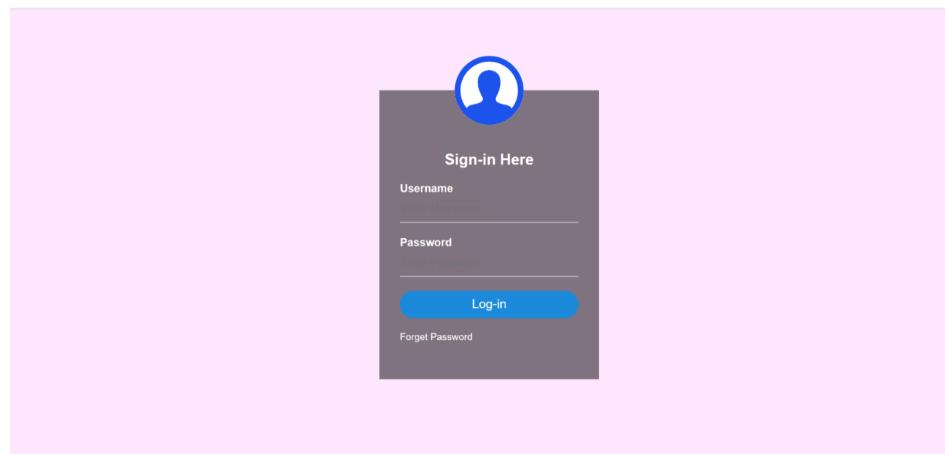


Fig 16: Login Page

Blood Bank Database Management System



Fig 17: Dashboard Page

The registration form is titled "Doner Registration Form" and has a red background. It is titled "Register Here". It includes fields for Name (text input), Date Of Birth (date input), Gender (radio buttons for Male, Female, Other), Blood Group (select dropdown), Contact No (text input), Email id (text input), and Address (text input). At the bottom are "Submit" and "Reset" buttons.

Fig 18: Donor Registration Page

The search page has a pink header with the title "Life Saviour Blood Bank Search Donor". On the left is a red blood drop logo. Below the header is a black navigation bar with links: Home, Events, About Us, Contact Us, Back, and a Log out button. The main area is titled "Search the Donor :" and features a search bar with placeholder text "Enter Blood Group e.g A+ve.." and a blue search icon.

Fig 19: Donor Search Page



Life Saviour Blood Bank

Donor Information

Home Events About Us Contact Us Back Logout

Donors Details



Name :- Sahil Raje
Contact No :- 5486571536
E-mail :- sahil@gmail.com
Address :- ferri



Name :- Kashmira Lohar
Contact No : 2563563256
E-mail :- kashmiralohar@gmail.com
Address :- Right bhusari
kothrud,Pune -22

Fig 20: Result After Searching Donor Page



Life Saviour Blood Bank

Home Events About Us Contact Us Back Logout

Remove the Donor :

Fig 21: Remove Donor Page



Life Saviour Blood Bank

Seeker Request Information

Home Events About Us Contact Us Back Logout

Name	Contact	Patient Name	Patient Blood GROUP	Hospital Name	Hospital Address	Blood Required Date
Samrudhi Manchekar	7845254852	Sankalp Manchekar	A-ve	Poona Hospital	Shivaji Road ,Pune 35	2023-04-13
Kashmira Lohar	4521145874	Vedant Lohar	AB-ve	Poona Hospital	Vishrant Wadi ,Pune 35	2023-04-12
Samrudhi Kulkarni	4988956648	Prathmesh Kulkarni	AB-ve	Syadri Hospital,Pune 41	Deccan , Pune	2023-04-06
Omkar Mane	4575236584	Sweeta Mane	O-ve	Borse Hospital	Kothrud , Pune 32	2023-04-01

Fig 22: Seeker Information Page

Blood Bank Database Management System

The screenshot shows a table listing hospital requests:

Name	Blood Required Date	Required Blood Group	No.of Units	Contact	Email	Address
Krishna Memorial Hospital	2023-06-05	O+ve	15	0207859963	krishnamemorialhospital@gmail.com	Sus Road, Karve Nagar, Pune.
Rishita Hospital	2023-04-05	AB-ve	30	5135485516	rishitahospital@gmail.com	Dp Road,Pune 43
Sayadri Hospital	2023-04-19	O-ve	40	7321578965	sayadrihospital@gmail.com	Deccan Pune,15
Khrushna Hospital	2023-04-11	B-ve	50	1286572357	Krushnahospital@gmail.com	Camp ,Pune 56

Fig 23: Hospital Request Information Page

The screenshot shows a table of blood stock availability:

Blood Group	Status	Quantity
A+ve	Available	30
A-ve	Available	15
B+ve	Available	30
B-ve	Available	28
AB+	Available	40
AB-	Available	50
O+	Available	70
O-	Available	20

Fig 24: Blood Stock Information Page

The screenshot shows a form for updating blood stock:

Blood Group :

Status :

Quantity :

Fig 25: Blood Stock Updating Page

Chapter - 9

Test Queries

Query- CREATE TABLE `blood_bank`.`donor_info` (`D_ID` INT NOT NULL AUTO_INCREMENT , `D_NAME` VARCHAR(40) NOT NULL , `D_DOB` DATE NOT NULL , `D_GENDER` VARCHAR(10) NOT NULL , `D_BLOOD_GP` VARCHAR(5) NOT NULL , `D_CONTACT_NO` VARCHAR(15) NOT NULL , `D_EMAIL_ID` VARCHAR(30) NOT NULL , `D_ADDRESS` VARCHAR(50) NOT NULL , PRIMARY KEY (`D_ID`)) ENGINE = InnoDB CHARSET=latin1 COLLATE latin1_swedish_ci;

	D_ID	D_NAME	D_DOB	D_GENDER	D_BLOOD_GP	D_CONTACT_NO	D_EMAIL_ID	D_ADDRESS
1	1	ADITI KHADE	1996-07-06	female	A-ve	8978856485	aditikhade@gmail.com	KARVE NAGAR, PUNE.
2	3	Sahil Raje	2005-02-26	male	O+ve	5486571536	sahil@gmail.com	fernwr
3	4	samrrudhi bhilare	2005-03-11	female	B-ve	8545245885	bhilare@gmail.com	rgtedg
4	5	Jayesh Deshmukh	2001-06-06	male	B-ve	2115481555	assfs@gmail.com	fdhhjhdfqghtgf
5	6	Tanmay Tharkude	1997-06-05	male	B-ve	8642568741	tanmaythar17@gmail.com	Balapur Pune 57
6	7	Manthan Ghadshi	1998-08-20	male	B+ve	4523689652	manthanghadshi@gmail.com	Bavdhan , Pune-67
7	8	Kashmira Lohar	1999-06-23	female	O+ve	2563563256	kashmiralohar@gmail.com	Right bhusari kothrude,Pune -2
8	9	Parth Deshmukha	1998-02-18	male	O-ve	5878545254	parthuu@gmail.com	Manapa , Pune 27
9	10	Neha Kulkarni	1994-07-15	female	A+ve	6487451254	nehakul@gmail.com	Pashan Road,Pune43

Query - CREATE TABLE `blood_bank`.`seeker_info` (`S_ID` INT NOT NULL AUTO_INCREMENT , `S_NAME` VARCHAR(40) NOT NULL , `S_CONTACT` VARCHAR(15) NOT NULL , `P_NAME` VARCHAR(40) NOT NULL , `P_DOB` DATE NOT NULL , `P_GENDER` VARCHAR(10) NOT NULL , `P_BG` VARCHAR(5) NOT NULL , `HOSPITAL_NAME` VARCHAR(40) NOT NULL , `HOSPITAL_ADD` VARCHAR(50) NOT NULL , `BLOOD_REQ_DATE` DATE

Blood Bank Database Management System

NOT NULL , PRIMARY KEY (`S_ID`)) ENGINE = InnoDB CHARSET=latin1
COLLATE latin1_swedish_ci;

	S_ID	S_NAME	S_CONTACT	P_NAME	P_DOB	P_GENDER	P_BG	HOSPITAL_NAME	HOSPITAL_ADD	BLOOD_REQ_DATE
ete	4	Samrudhi Manchekar	7845254852	Sankalp Manchekar	2000-03-04	male	A-ve	Poona Hospital	Shivaji Road ,Pune 35	2023-04-13
ete	5	Kashmira Lohar	4521145874	Vedant Lohar	1993-03-10	male	AB-ve	Poona Hospital	Vishrant Wadi ,Pune 35	2023-04-12
ete	6	Samrudhi Kulkarni	4988956648	Prathmesh Kulkarni	2000-03-10	male	AB-ve	Syadri Hospital,Pune 41	Deccan , Pune	2023-04-06

Print Edit Copy Delete Export

Query- CREATE TABLE `blood_bank`.`hospital_info` (`H_ID` INT NOT NULL AUTO_INCREMENT , `H_NAME` VARCHAR(50) NOT NULL , `BLOOD_REQ_DATE` DATE NOT NULL , `REQ_BLOOD_GP` VARCHAR(5) NOT NULL , `NO_OF_UNITS` INT(4) NOT NULL , `H_CONTACT` VARCHAR(15) NOT NULL , `H_EMAIL` VARCHAR(40) NOT NULL , `H_ADD` VARCHAR(50) NOT NULL , PRIMARY KEY (`H_ID`)) ENGINE = InnoDB CHARSET=latin1 COLLATE latin1_swedish_ci;

	H_ID	H_NAME	BLOOD_REQ_DATE	REQ_BLOOD_GP	NO_OF_UNITS	H_CONTACT	H_EMAIL	H_ADD
	1	Krishna Memorial Hospital	2023-06-05	O+ve	15	0207859963	krishnamemorialhospital@gmail.com	Sus Road, Karve Nagar, Pune.
	2	Rishta Hospital	2023-04-05	AB-ve	30	5135485516	rishtahospital@gmail.com	Dp Road,Pune 43
	3	Sayadri Hospital	2023-04-19	O-ve	40	7321578965	sayadrihospital@gmail.com	Deccan Pune,15
	4	Khrushna Hospital	2023-04-11	B-ve	50	1286572357	Krushnahospital@gmail.com	Camp ,Pune 56

Query- CREATE TABLE `blood_bank`.`employee_info` (`EMP_ID` INT NOT

Blood Bank Database Management System

```

NULL AUTO_INCREMENT , `EMP_NAME` VARCHAR(35) NOT NULL ,
`EMP_GENDER` VARCHAR(10) NOT NULL , `EMP_BG` VARCHAR(5) NOT
NULL , `EMP_CONTACT` VARCHAR(15) NOT NULL , `EMP_EMAIL` VARCHAR(30)
NOT NULL , `EMP_ADD` VARCHAR(50) NOT NULL ,
`EMP_USER_NAME` VARCHAR(15) NOT NULL , `EMP_PASS` VARCHAR(15) NOT NULL ,
`EMP_CPASS` VARCHAR(15) NOT NULL , PRIMARY KEY (`EMP_ID`)) ENGINE = InnoDB CHARSET=latin1 COLLATE latin1_swedish_ci;

```

	EMP_ID	EMP_NAME	EMP_GENDER	EMP_BG	EMP_CONTACT	EMP_EMAIL	EMP_ADD	EMP_USER_NAME	EMP_PASS	EMP_CPASS
le	1	Sam Manchekar	female	O+ve	9898854455	sammanchekar@gmail.com	Kothrud, Pune-38.	sam_man_123	123456	123456
le	4	Jayesh Deshmukh	male	AB-ve	2542424244	jayesh@gmail.com	Narhe ,Pune	jay_2003	2003	2003
le	6	Sanalp Manchekar	male	O+ve	4588526584	sankalp@gmail.com	Kothrud Pune 24	sankalp_1404	1404	1404
le	7	Apeksha Deshmukha	female	A+ve	4452289652	apeksha@gmail.com	Bhugav ,Pune 25	Apeksha_9876	9876	9876
le	8	Sujal kamana	male	O-ve	7512512548	sujal123@gmail.com	Pimpri , Pune 26	sujal_3456	3456	3456
le	9	Sahil Raje	male	B+ve	7512563214	sahil45@gmail.com	Pimpri road ,Pune	sahil_1987	1987	1987

Query - CREATE TABLE `blood_bank`.`bloodstock` (`stock_id` INT NOT NULL AUTO_INCREMENT , `blood_g` VARCHAR(5) NOT NULL , `Status` VARCHAR(15) NOT NULL , `Quantity` INT(6) NOT NULL , PRIMARY KEY (`stock_id`)) ENGINE = InnoDB CHARSET=latin1 COLLATE latin1_swedish_ci;

Blood Bank Database Management System

stock_id	blood_g	Status	Quantity
1	A+ve	Available	50
2	A-ve	Available	15
3	B+ve	Available	30
4	B-ve	Available	28
5	AB+	Available	40
6	AB-	Available	50
7	O+	Available	70
8	O-	Available	20

Query - INSERT INTO `bloodstock` ('stock_id', 'blood_g', 'Status', 'Quantity') VALUES (NULL, 'AB-', 'Available ', '30');

stock_id	blood_g	Status	Quantity
1	A+ve	Available	30
2	A-ve	Available	15
3	B+ve	Available	30
4	B-ve	Available	28
5	AB+	Available	40
6	AB-	Available	50
7	O+	Available	70
8	O-	Available	20
9	AB-	Available	30

Query - INSERT INTO `donor_info` ('D_ID', 'D_NAME', 'D_DOB', 'D_GENDER', 'D_BLOOD_GP', 'D_CONTACT_NO', 'D_EMAIL_ID', 'D_ADDRESS') VALUES (NULL, 'Viraj Manchekar', '1994-05-11', 'male', 'A+', '6514254521', 'virmanchekar@gmail.com', 'Shivane Pune-92');

Blood Bank Database Management System

D_ID	D_NAME	D_DOB	D_GENDER	D_BLOOD_GP	D_CONTACT_NO	D_EMAIL_ID	D_ADDRESS
1	ADITI KHADE	1996-07-06	female	A-ve	8978856485	aditikhade@gmail.com	KARVE NAGAR, PUNE.
3	Sahil Raje	2005-02-26	male	O+ve	5486571536	sahil@gmail.com	fernw
4	samrudhi bhilare	2005-03-11	female	B-ve	8545245885	bhilare@gmail.com	rgtedg
5	Jayesh Deshmukh	2001-06-06	male	B-ve	2115481555	assfs@gmail.com	fdhhjhdfghhtgf
6	Tanmay Tharkude	1997-06-05	male	B-ve	8642568741	tanmaythar17@gmail.com	Balapur Pune 57
7	Manthan Ghadshi	1998-08-20	male	B+ve	4523689652	manthanghadshi@gmail.com	Bavdhan , Pune-67
8	Kashmira Lohar	1999-06-23	female	O+ve	2563563256	kashmiralohar@gmail.com	Right bhusari kothrude,Pune -22
9	Parth Deshmukha	1998-02-18	male	O-ve	5878545254	parthuu@gmail.com	Manapa , Pune 27
10	Neha Kulkarni	1994-07-15	female	A+ve	6487451254	nehakul@gmail.com	Pashan Road,Pune43
11	Viraj Manchekar	1994-05-11	male	A+	6514254521	virmanchekar@gmail.com	Shivane Pune-92

Query- INSERT INTO `employee_info` ('EMP_ID', 'EMP_NAME',
 'EMP_GENDER', 'EMP_BG', 'EMP_CONTACT', 'EMP_EMAIL',
 'EMP_ADD', 'EMP_USER_NAME', 'EMP_PASS', 'EMP_CPASS') VALUES
 (NULL, 'Shital Manchekar', 'female ', 'B+', '4265889745', 'shital1445@gmail.com',
 'Appar Pune-99', 'shital4567', '45678', '45678');

E	EMP_ID	EMP_NAME	EMP_GENDER	EMP_BG	EMP_CONTACT	EMP_EMAIL	EMP_ADD	EMP_USER_NAME	EMP_PA
e	1	Sam Manchekar	female	O+ve	9898854455	sammanchekar@gmail.com	Kothrud, Pune-38.	sam_man_123	123456
e	4	Jayesh Deshmukh	male	AB-ve	2542424244	jayesh@gmail.com	Narhe ,Pune	jay_2003	2003
e	6	Sanalp Manchekar	male	O+ve	4588526584	sankalp@gmail.com	Kothrude Pune 24	sankalp_1404	1404
e	7	Apeksha Deshmukha	female	A+ve	4452289652	apeksha@gmail.com	Bhugav ,Pune 25	Apeksha_9876	9876
e	8	Sujal kamana	male	O-ve	7512512548	sujal123@gmail.com	Pimpri , Pune 26	sujal_3456	3456
e	9	Sahil Raje	male	B+ve	7512563214	sahil45@gmail.com	Pimpri road ,Pune	sahil_1987	1987
e	10	Shital Manchekar	female	B+	4265889745	shital1445@gmail.com	Appar Pune-99	shital4567	45678

Query - INSERT INTO `hospital_info` ('H_ID', 'H_NAME',

Blood Bank Database Management System

```
'BLOOD_REQ_DATE',           'REQ_BLOOD_GP',           'NO_OF_UNITS',
'H_CONTACT', 'H_EMAIL', 'H_ADD') VALUES (NULL, 'Ruby Hospital',
'2023-05-10', 'AB-', '25', '5485236584', 'rubyhospital@gmail.com', 'Swarget Pune - 43');
```

H_ID	H_NAME	BLOOD_REQ_DATE	REQ_BLOOD_GP	NO_OF_UNITS	H_CONTACT	H_EMAIL	H_ADD
1	Krishna Memorial Hospital	2023-06-05	O+ve	15	0207859963	krishnamemorialhospital@gmail.com	Sus Road, Karve Nagar, Pune.
2	Rishta Hospital	2023-04-05	AB-ve	30	5135485516	rishtahospital@gmail.com	Dp Road,Pune 43
3	Sayadri Hospital	2023-04-19	O-ve	40	7321578965	sayadrihospital@gmail.com	Deccan Pune,15
4	Khrushna Hospital	2023-04-11	B-ve	50	1286572357	Krushnahospital@gmail.com	Camp ,Pune 56
5	Ruby Hospital	2023-05-10	AB-	25	5485236584	rubyhospital@gmail.com	Swarget Pune - 43

Query - "DELETE FROM donor_info WHERE `donor_info`.`D_ID` = 10";

D_ID	D_NAME	D_DOB	D_GENDER	D_BLOOD_GP	D_CONTACT_NO	D_EMAIL_ID	D_ADDRESS
1	ADITI KHADE	1996-07-06	female	A-ve	8978856485	aditikhade@gmail.com	KARVE NAGAR, PUNE.
3	Sahil Raje	2005-02-26	male	O+ve	5486571536	sahil@gmail.com	fernw
4	samrrudhi bhilare	2005-03-11	female	B-ve	8545245885	bhilarre@gmail.com	rqedg
5	Jayesh Deshmukh	2001-06-06	male	B-ve	2115481555	assfs@gmail.com	fdhhjndffghhtgf
6	Tanmay Tharkude	1997-06-05	male	B-ve	8642568741	tanmaythar17@gmail.com	Balapur Pune 57
7	Manthan Ghadshi	1998-08-20	male	B+ve	4523689652	manthanghadshi@gmail.com	Badhan , Pune-67
8	Kashmira Lohar	1999-06-23	female	O+ve	2563563256	kashmiralohar@gmail.com	Right bhusari kothrude,Pune -22
9	Parth Deshmukha	1998-02-18	male	O-ve	5878545254	parthuu@gmail.com	Manapa , Pune 27

Blood Bank Database Management System

Query - "DELETE FROM employee_info WHERE `employee_info`.`EMP_ID` = 10";

EMP_ID	EMP_NAME	EMP_GENDER	EMP_BG	EMP_CONTACT	EMP_EMAIL	EMP_ADD	EMP_USER_NAME	EMP_PA
1	Sam Manchekar	female	O+ve	9898854455	sammanchekar@gmail.com	Kothrud, Pune-38.	sam_man_123	123456
4	Jayesh Deshmukh	male	AB-ve	2542424244	jayesh@gmail.com	Narhe ,Pune	jay_2003	2003
6	Sanalp Manchekar	male	O+ve	4588526584	sankalp@gmail.com	Kothrud Pune 24	sankalp_1404	1404
7	Apeksha Deshmukha	female	A+ve	4452289652	apeksha@gmail.com	Bhugav ,Pune 25	Apeksha_9876	9876
8	Sujal kamana	male	O-ve	7512512548	sujal123@gmail.com	Pimpri , Pune 26	sujal_3456	3456
9	Sahil Raje	male	B+ve	7512563214	sahil45@gmail.com	Pimpri road ,Pune	sahil_1987	1987

Query- "DELETE FROM hospital_info WHERE `hospital_info`.`H_ID` = 5";

ID	H_NAME	BLOOD_REQ_DATE	REQ_BLOOD_GP	NO_OF_UNITS	H_CONTACT	H_EMAIL	H_ADD
1	Krishna Memorial Hospital	2023-06-05	O+ve	15	0207859963	krishnamemorialhospital@gmail.com	Sus Road, Karve Nagar, Pune.
2	Rishta Hospital	2023-04-05	AB-ve	30	5135485516	rishtahospital@gmail.com	Dp Road,Pune 43
3	Sayadri Hospital	2023-04-19	O-ve	40	7321578965	sayadrihospital@gmail.com	Deccan Pune,15
4	Khrushna Hospital	2023-04-11	B-ve	50	1286572357	Krushnahospital@gmail.com	Camp ,Pune 56

Blood Bank Database Management System

Query -"DELETE FROM seeker_info WHERE `seeker_info`.`S_ID` = 7";

S_ID	S_NAME	S_CONTACT	P_NAME	P_DOB	P_GENDER	P_BG	HOSPITAL_NAME	HOSPITAL_ADD	BLOOD_REQ_DATE
4	Samrudhi Manchekar	7845254552	Sankalp Manchekar	2000-03-04	male	A+ve	Poona Hospital	Shivaji Road, Pune 35	2023-04-13
5	Kashmita Lohar	4521145874	Vedant Lohar	1998-03-10	male	AB-ve	Poona Hospital	Vishrant Wadi, Pune 35	2023-04-12
6	Samrudhi Kulkarni	4988956543	Prathmesh Kulkarni	2000-03-10	male	AB-ve	Syadhi Hospital, Pune 41	Deccan, Pune	2023-04-06

Query -UPDATE `bloodstock` SET `Quantity` = '50' WHERE `bloodstock`.
`stock_id` = 1;

stock_id	blood_g	Status	Quantity
1	A+ve	Available	50
2	A-ve	Available	15
3	B+ve	Available	30
4	B-ve	Available	28
5	AB+	Available	40
6	AB-	Available	50
7	O+	Available	70
8	O-	Available	20

Chapter - 10

Conclusion

In this system, we present a methodology that uses a **Blood Donation Management System**. The web-based blood bank systems provide convenience, efficiency and security to the system users and hospitals compared to the manual systems. It was found out that manual systems have many disadvantages that disappoint and dissatisfy users. Indeed, online blood bank applications make work easy, and ensure fast retrieval of data when needed. The database is a vital aspect of the system. The database of the hospitals and the blood banks must be checked for consistency on regular basis for smooth working of the system.

Chapter - 11

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