

CHAPTER 1

INTRODUCTION

1.1 INTRODUCTION

This chapter gives an overview about the background study, motivation, literature survey, tools and technology used, hardware and software requirements of the system.

1.1.1 BACKGROUND STUDY AND MOTIVATION

The Blood Bank and Donor management system is used to manage the details of the blood groups and donors. The system helps the recipients to search the blood based on blood groups and location. The proposed system allows the Admin to manage blood groups, donors and blood requests. Donor can either register themselves or else Admin can add the Donor. Recipient can request blood which will be received by the Admin through email. The basic building aim is to provide blood donation service. The aim is to provide transparency in this field, make the process of obtaining blood from a blood bank hassle free and corruption free and make the system of blood bank management effective.

The major goal of the blood bank management system is to keep track of blood donors, blood groups and request information. Because the project is all done at the administrative level, only the administrator can see it.

1.2 LITERATURE SURVEY

1.2.1 EXISTING AND PROPOSED SYSTEM

The number of persons who are in need of blood are increasing in large number day by day. In order to help people who are in need of blood, this Blood Bank and Donor Management System can be used effectively for getting the details of available blood groups and user can also get contact number of the blood donors having the same blood group at their location.

The proposed Blood Bank and Donor Management System helps the people who are in need of a blood by giving them all details of blood group availability or regarding the donors with the same blood group. The people in need of blood can search for the donors by giving their blood group and location. It saves the time as users can search donors online without going anywhere. Using this system user can get blood in time and can save someone's life. This system works 24x7 so user can get information of blood donor any time. The main benefit of this system is the information of availability of blood group.

1.3 TOOLS AND TECHNOLOGIES USED

- Technology Implemented : Xampp Server
- Database : MySQL
- Front End : HTML, CSS, Bootstrap, JavaScript, JQuery
- Back End : PHP
- Web Browser : Mozilla, Google Chrome or any other browser

1.4 HARDWARE AND SOFTWARE REQUIREMENTS

HARDWARE REQUIREMENTS

- Processor : Intel dual core or above
- Processor Speed : Minimum 2 GHz
- RAM : 2 GB or above
- Hard Disk : Minimum 40 GB
- Monitor : Normal
- Key Board : Normal standard Keyboard
- Mouse : Normal

SOFTWARE REQUIREMENTS

- Operating System : Windows 7 or above
- Web Browser : Google Chrome or any other browser
- Front End : HTML, CSS, Bootstrap, JavaScript, JQuery
- Back End : PHP
- Server : Apache
- Database : MySQL
- IDE : VS Code

CHAPTER 2

SYNOPSIS

2.1 TITLE OF THE PROJECT: Blood Bank and Donor Management System

2.2 ABSTRACT

The Blood Bank and Donor management system Software is used to manage the details of the blood groups and donors. The system helps the recipients to search the blood based on blood groups and the location. The proposed system allows the admin to manage blood groups and donors. Users can either register themselves as a donor or they can request for the blood through this system. The basic building aim is to provide blood donation service . Aim is to provide transparency in this field, make the process of obtaining blood from a blood bank hassle free and corruption free and make the system of blood bank management effective.

2.3 PROBLEM DESCRIPTION

- The software allows the users to register as a donor or post a request for blood requirement.
- The admin can manage the blood group details. He can also manage the donors.
- Admin can view the requests made by the users and he can also view the donors list.
- Recipient can view the donor details. They can also search for the blood based on blood groups or location.

2.4 AIM OF THE PROJECT

Blood Bank Management System (BBMS) aims at maintaining all the information pertaining to blood donors, different blood groups available and help them manage in a better way.

2.5 PLATFORM/TOOLS/LANGUAGE TO BE USED

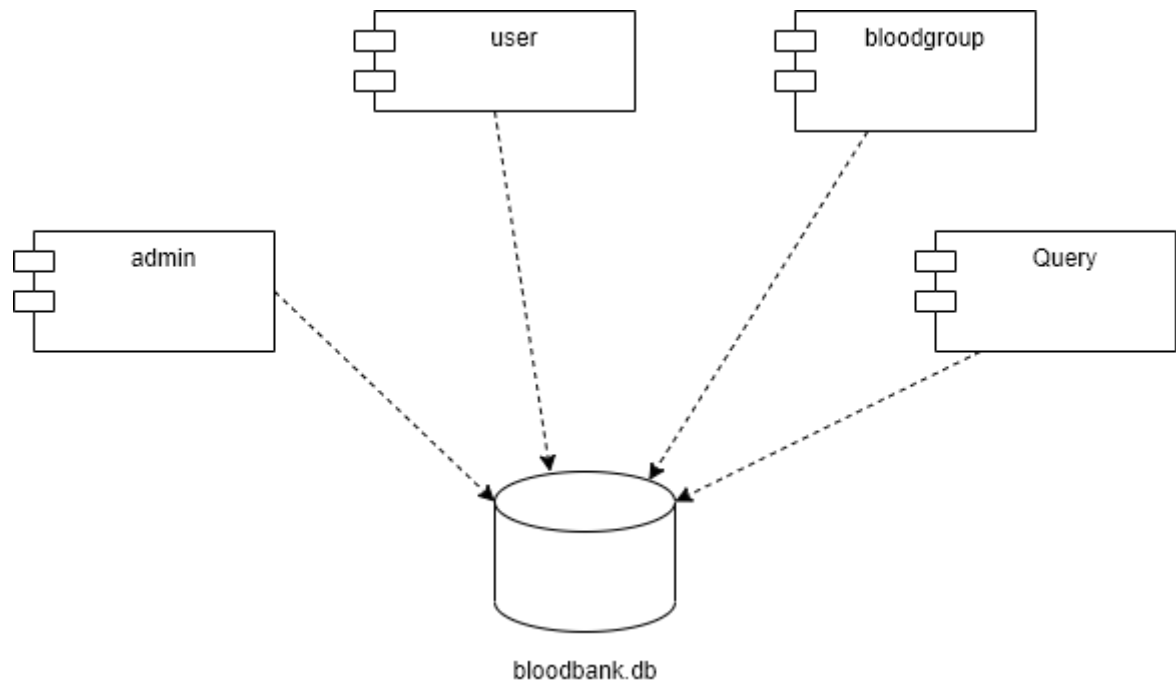
Front End : HTML5,CSS,Bootstrap,javascript

Back End : PHP

Database : MySQL Operating System : Windows 7 or above

Server : Apache

2.6 COMPONENT DIAGRAM



CHAPTER 3

IMPLEMENTATION

3.1 INTRODUCTION

To develop an implementation plan is useful in the view of the fact that there will be a reference point in monitoring the project. The implementation plan will ensure the project is run in an efficient and effective manner. It is useful to be able to settle on the time frame of the project; train and educate the providers of the services, and share all the roles and responsibilities among the actors in the project. In addition it is used to give formal and written objectives and referrals, communication protocols and the policies, rules and regulations. Above all it is very useful in gauging the performance of the project in a logical and rational way.

3.2 IMPLEMENTATION DETAILS

This section explains the implementation details of the Blood Bank and Donor Management System. Pseudo codes are given for major modules. The programming language used for implementation of the application is PHP using Sublime Editor. MySQL Server stores all the data into the database which helps in easy insertion and retrieval of data.

3.3 PSEUDO CODES

Pseudo code is a kind of structured English for describing algorithms. It allows the designer to focus on the logic of the algorithm without being distracted by details of language syntax. At the same time, the pseudo code needs to be complete. It describes the entire logic of the algorithm so that implementation becomes rote mechanical task for translating line into source code .Pseudo code is a compact and informal high level description of a computer programming algorithm that uses the structural conventions of a programming language but is intended for human reading rather than machine reading pseudo code typically omits details that are not essential for human understanding of the algorithms such as variables declaration, system-specific code and subroutines.

3.3.1 PSEUDO CODE FOR LOGIN PAGE:

When the admin wants to use the system, he should login with valid username and password.
When the correct login username and password are entered, the admin is directed to his home page for further processing.

BEGIN

Enter username and Password

 The credentials are checked against the database

 If username or password is incorrect

 Display Invalid email or password

 Else

 Redirect to the admin page

 End

End

END

3.3.2 PSEUDO CODE FOR DONOR REGISTRATION PAGE:

Donor can either register themselves or else Admin can add the details about donor

BEGIN

 If donor enters valid details

 Registration successful

 else If the information entered is invalid then

 Display error message

 else if input field is left blank

 Display error message

 End

END

CHAPTER 4

CONCLUSION

The web application Blood Bank and Donor Management System is developed with an intention to allow quick and timely access to donor records. Blood Bank and Donor Management System guarantees that the manual work involved is computerized, thereby easing the search of blood groups in less time. The software is user-friendly and interactive, while simultaneously allowing the data to be securely saved and managed. This system is evidently much faster than the manual work because of the communication over the internet. The website is responsive and can be used on any device. This software has been tested with all possible sample data and was found to function efficiently. Although it's a successfully running application, it can be still modified if required without disrupting the working part of the application.

CHAPTER 5

FUTURE ENHANCEMENTS

The system can be further enhanced with:

- Improved user interface.
- Quick access to the information.
- Blood camp details can be added.
- Along with blood, organ donation information system can be developed.
- Develop Donor panel so that donors can see their blood results.
- Hospital panel can be created to have inventories of blood bags.
- A mobile application for the desktop version so that it can be handy to use. This is now important to have a mobile app version.

APPENDIX A:

REFERENCES

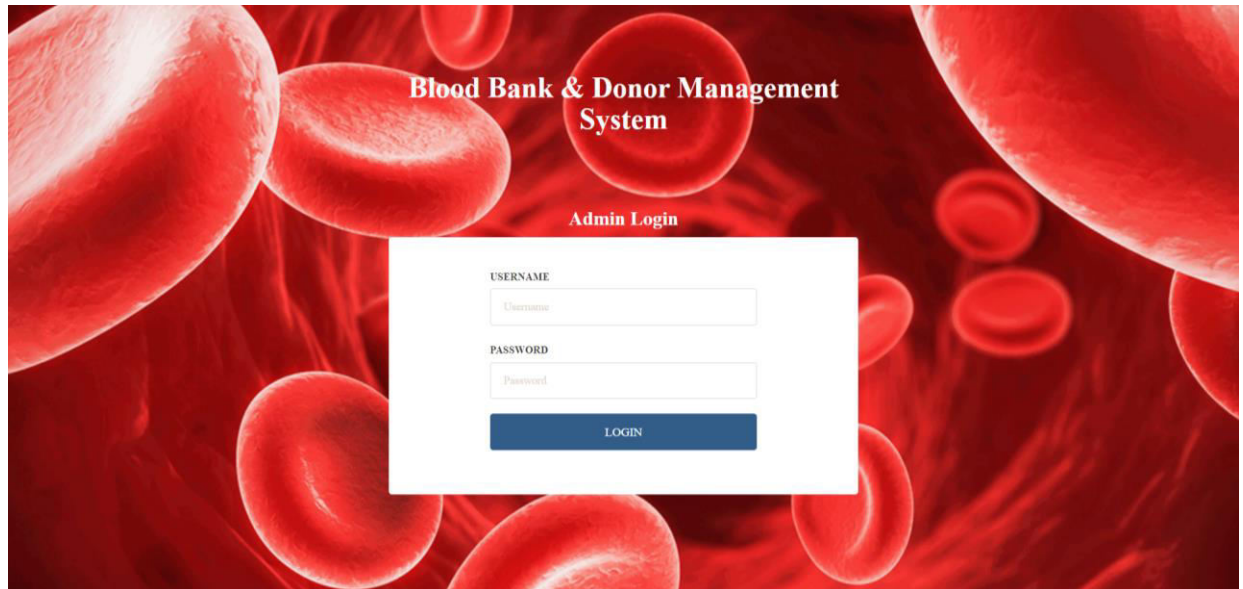
WEBSITES:

- [1]. www.w3schools.com
- [2]. www.tutorialspoint.com
- [3]. www.stackoverflow.com
- [4]. www.phptutorialinfo.com

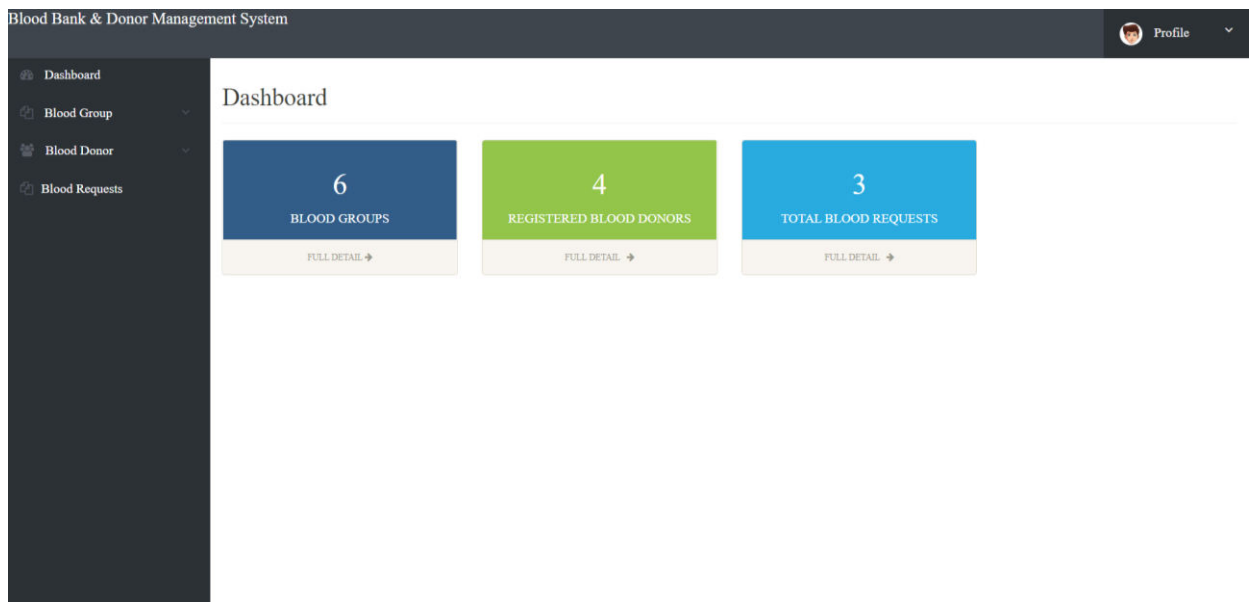
APPENDIX B:

USER MANUALS

Admin Login Page:



Admin Home Page



Add blood group

Blood Bank & Donor Management System

Dashboard
Blood Group
Blood Donor
Blood Requests

Add Blood Group

Blood Group

Submit

Manage blood group

Blood Bank & Donor Management System

Dashboard
Blood Group
Blood Donor
Blood Requests

Manage Blood Groups

Show 10 entries

Search:

#	Blood Groups	Creation Date	Action
1	A+	2022-05-25 16:21:13	Edit
2	A-	2022-05-25 16:21:17	Edit
3	B+	2022-05-25 16:21:26	Edit
4	B-	2022-05-25 16:21:31	Edit
5	AB+	2022-05-25 16:21:52	Edit
6	O+	2022-05-25 16:22:40	Edit

Showing 1 to 6 of 6 entries

PREVIOUS 1 NEXT

Add blood donor

Blood Bank & Donor Management System

Profile

Dashboard

Blood Group

Blood Donor

Blood Requests

Add Donor

BASIC INFO

Full Name*

Mobile No*

Email id

Age*

Gender*

Blood Group*

Address

SUBMIT

Manage donors

Blood Bank & Donor Management System

Profile

Dashboard

Blood Group

Blood Donor

Blood Requests

Donors List

DONORS INFO

[Download Donor List](#)

Show 10 entries

Search:

#	Name	Mobile No	Email	Age	Gender	Blood Group	address	action
1	Yashaswi	8762582202	yashaswisapalya3100@gmail.com	Female	21	B+	Bantwal	Hide Delete
2	Neha	9449233715	neha@gmail.com	Female	20	A+	Ujire	Hide Delete
3	Shraddha	8762231595	shradda@gmail.com	Female	22	AB+	Udupi	Hide Delete
4	Madhu	8695321476	madhu@gmail.com	Female	21	A+	Bantwal	Hide Delete

Showing 1 to 4 of 4 entries

PREVIOUS 1 NEXT

Manage user request

BBDMS

localhost/bbdms/bbdms/admin/request.php

Blood Bank & Donor Management System

Profile

Dashboard

Blood Group

Blood Donor

Blood Requests

Manage User Requests

USER REQUESTS

Show 10 entries

Search:

#	Name	Email	Contact No	Message	Posting date	Action
1	Yashaswi	yashaswisapalya3100@gmail.com	8762582202	urgent requirement of A+ blood group.Need 6 units	2022-05-29 18:47:19	Accepted
2	Shreeshma	shreeshma@gmail.com	8762154325	7 units of B+	2022-05-29 18:49:39	<button>Accept</button> <button>Reject</button> <button>Delete</button>

Showing 1 to 2 of 2 entries

PREVIOUS 1 NEXT

Change password

BBDMS

localhost/bbdms/bbdms/admin/change-password.php

Blood Bank & Donor Management System

Profile

Dashboard

Blood Group

Blood Donor

Blood Requests

Change Password

FORM FIELDS

Current Password

New Password

Confirm Password

Save changes


User home page

BBDMs

localhost/bbdoms/bbdoms/

Blood Bank & Donor Management System

Why Become Donor Become a Donar Search Blood Send Blood Request



Give blood. Save a life.

Welcome to Blood Bank & Donor Management System

The Need for Blood

Blood is the most essential thing for human life. It is an inhuman body fluid that delivers necessary substances such as nutrients and oxygen to the cells. Blood is a transport liquid pumped by the heart to all parts of the body

[Click here to know more](#)

Blood Tips

Additional tips for the day of your donation:
Drink an extra 16 oz. of water (or other nonalcoholic drink) before your appointment.
Eat a healthy meal, avoiding fatty foods like hamburgers, fries or ice cream.

[Click here to know more](#)

About Blood Donation

Blood bank is a place where blood bag that is collected from blood donation events is stored in one place. The term "blood bank" refers to a division of a hospital laboratory where the storage of blood product occur and


[Click here to know more](#)

BLOOD GROUPS

Blood group of any human being will mainly fall in any one of the following groups.

- A positive or A negative
- B positive or B negative
- O positive or O negative
- AB positive or AB negative.

A healthy diet helps ensure a successful blood donation, and also makes you feel better! Check out the following recommended foods to eat prior to your donation.



UNIVERSAL DONORS AND RECIPIENTS

The most common blood type is O, followed by type A. Type O individuals are often called "universal donors" since their blood can be transfused into persons with any blood type. Those with type AB blood are called "universal recipients" because they can receive blood of any type.

[Become a Donar](#)

Some of the Donars

Shraddha
Gender : Female
Blood Group : AB+

Madhu
Gender : Female
Blood Group : A+

Yashaswi
Gender : Female
Blood Group : B+

Neha
Gender : Female
Blood Group : A+

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Donor registration

The screenshot shows a web browser window with the URL `localhost/bbdfs/bbdfs/become-donor.php`. The page title is "Blood Bank & Donor Management System". The navigation bar includes links: "Why Become Donor", "Become a Donar", "Search Blood", and "Send Blood Request". The main heading is "Become a Donor". Below it is a breadcrumb trail: "Home / Become a Donor". The form contains the following fields:

- Full Name* (text input)
- Mobile Number* (text input)
- Email Id (text input)
- Age* (text input)
- Gender* (dropdown menu with "Select" as the current value)
- Blood Group* (dropdown menu with "A+" as the current value)
- Address (text input)

At the bottom of the form are two buttons: "SUBMIT" (blue) and "BACK" (red). The Windows taskbar at the bottom shows the time as 9:46 AM on 18-Jun-22.

Search blood donor

The screenshot shows a web browser window with the URL `localhost/bbdfs/bbdfs/search-donor.php`. The page title is "Blood Bank & Donor Management System". The navigation bar includes links: "Why Become Donor", "Become a Donar", "Search Blood", and "Send Blood Request". The main heading is "Search Donor". Below it is a breadcrumb trail: "Home / Search Donor". The form contains the following fields:

- Blood Group* (dropdown menu with "A+" as the current value)
- Location (text input)

At the bottom of the form is a blue "submit" button. The Windows taskbar at the bottom shows the time as 9:46 AM on 18-Jun-22.

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Send blood request

The screenshot shows a web browser window with the URL `localhost/bbdfs/bbdfs/contact.php`. The page title is "Blood Bank & Donor Management System". The navigation bar includes links: "Why Become Donor", "Become a Donor", "Search Blood", and "Send Blood Request". The main heading is "Send Blood Request". Below the heading is a breadcrumb trail: "Home / Request". The form contains the following fields:

- Full Name:
- Phone Number:
- Email Address:
- Subject:
- Message:

A blue "Submit" button is located at the bottom right of the form.

Blood request notification

The screenshot shows a Gmail inbox on a desktop browser. The email is titled "blood request" and is from "Yashaswi <sjec.bbdms22@gmail.com>". The email content is as follows:

Blood Request from yashaswisapalya3100@gmail.com
Name of recipient : Yashaswi
If stock available please contact
Our requirement urgent requirement of A+ blood group. Need 6 units

The email interface includes a left sidebar with "Compose", "Inbox", "Starred", "Snoozed", "Sent", "Drafts", and "More". Below these are "Meet" (New meeting, Join a meeting) and "Hangouts" (BBDMS). The main email view shows the "blood request" subject, the sender's name and email, and the email body text. At the bottom of the email view are "Reply" and "Forward" buttons.