

Chapter-1: Introduction/ Objectives

1. Introduction

The OnlineBlood donation management system would help numerous people from different cities. This website will be containing information about the donors, different blood groups available in each blood bank through which it can be managed in a better and effective way. In this way people can easily contact particular person or organization to get blood according to their convenient and needs.

This project main aim is to help people in need .It also encourages blood donor to donate. It will help people find blood donors in times of need.

It is necessary for people to be aware about donors and blood group so that they can ask for help .Even donors should also be updated and know about people who need them. This way we can help each other in better way.

To let this happen we need a way so that we can reach everyone quickly and easily. For this this website is being designed, from can find the blood donors on remote location easily and contact them.

We have two portals in our project first is admin portal and second is user portal. Through admin portal admin can login and can fetch all the information about users, user can be particular person or an organization. Second is user portal, user can be a particular person or an organization.

Admin can easily register, delete, and edit organization or user or member. Here admin is complete responsible for analysis and complete control of system is under Admin.

Role of organization or user is to register themselves online, edit profile, Online Find Blood and they can also search location wise.

1.2 Objective

The main objective of study is to create a project through which we can find donors from remote location and contact them and it also focuses on collection and management of blood units. Blood donor records and information is stored in secure way.

- To perform a study on blood donation management
- To design an Online Blood Donation Management System
- To authenticate a design using a model

1.3 Scope

According to Various studies many patient dies due to unavailability of blood. India faces, on average, a shortfall of 3 million units of blood annually. Lack of blood, plasma or platelets often leads to maternal mortality as well as deaths in cases of accidents involving severe blood loss. Through this website it would become easy to find donor and help people through it. This in turn will ease and speeds up the planning, decision making process because of the timely, secure, confidential and reliable reports. This project main aim is to help Blood bank to automate blood donor and depository online. It also encourages blood donor to donate. It will help people find blood donors in times of need. We have two portals in our project first is admin portal and second is user portal. Through admin portal admin can login and can fetch all the information about users, user can be particular person or an organization. Second is user portal, user can be a particular person or an organization. Admin can easily register, delete, and edit organization or user or member. Here admin is complete responsible for analysis and complete control of system is under Admin. Role of organization or user is to register themselves online, edit profile, Online Find Blood and they can also search location wise.

1.4 Features: -

- Helps Blood Banks to automate blood donor and depository online.
- Encourages blood donors to donate.
- Helps people find blood donors in times of need.

Admin Features: -

- Register, Delete, Edit Organization
- Register, Delete, Edit User
- Register, Delete, Edit Member
- Analysis
- Control Over System

1.5 Problem Definition

According to previous studies and reports I fell short of 1.9 million of blood unit that could be helpful in treatment of around 32,000 heart patients and their surgeries, and can also be used in organ transplant of patients. - according to official data 2016-2017. According to WHO, India fall short of 1.9 million units of blood whereas country 1% of total population is considered as

approximate estimate of blood need. This much of blood units is equal to 60 tankers – according to data presented to Lok Sabha(2018).

| Blood Requirements | |
|-----------------------------------|--------------------------|
| Units Of Blood Required For | Could Aid |
| Heart Surgery – 6 units | 3,27,187 Heart Surgeries |
| Organ Transplant – 40 units | 49,078 Transplants |
| Automobile Accident – 50 units | 39,262 Accidents |
| Bone Marrow Transplant – 20 units | 98,156 Transplants |

According to these studies we can know about shortage of blood India is facing to cure patients. Many people are unaware of blood donors and many donors are unaware about people who need their blood.

This website would help people and organizations to reach out to people who need their blood. Approaching people online through this website would solve the problem of blood shortage.

1.6 Applicability

This project is helpful for the users as donor can register themselves and recipients can search the donors. With the help of this website, user can get information about the donors and contact them. It is most beneficial for people who are undergoing any treatment, going to get operate, or in case of accident emergency. It becomes difficult to search donors, especially rare blood groups like o positive and o negative. Through this app recipient can easily find the donor. This website is easy to use and helpful to search the donor.

Components of the project:

- User need to register themselves.
- User can edit their profiles
- User can get easy access to their profile
- Admin can register a user
- Admin can edit a user.
- User can search the donor.

Chapter-2: System Analysis

2.1 Feasibility study: -

2.1.1 Technical Feasibility

The software is to be developed using C#, Java, PHP, CSS, XAML and MySQL, which are all readily available. Also, the team members have sufficient programming and related knowledge which will enable us to learn and adapt to these specific languages and platforms easily. Thus, we can see that the project is technically feasible.

2.1.2 Schedule Feasibility

This website is developed in the given time duration of 3 months. From gathering information to design phase. Every step is completed one by one. Spiral model is being followed in SDLC.

2.1.3 Economic Feasibility

The program uses programming languages whose IDEs are freeware. One exception to this is the Visual Studio 2012, which is needed for the 4 4 supplementary app development.

But this software is provided free of cost. Further costs for this project are the costs of online domain, space and database and registering and uploading the apps in the respective market, which is expected to be covered by the college.

The remaining cost is that of training the developer team in the particular language and/or platform, which is minimal. So, the project is economically feasible.

2.1.4 Operational Feasibility

The software requires very little specific environment to run. Only the apps require their environment to run, i.e. Windows 8™ and Android™.

As a staggering majority of the PCs in the world are based on Windows™ OS and many mobile devices operate on Android™, this cannot really be considered a need. The software will be extremely user-

friendly, removing the need for specifically trained employees. Similarly, the cost of buying the rights and the maintenance cost will not be very high for the client.

So, the software is feasible for operation.

2.1.5 Legal Feasibility

The developers will obviously use no illegal means or methodologies in the development process of the system. The software will be built and operated abiding by the Cyber and other applicable laws prevailing in the country enforced by the Government of Nepal. The user will be held responsible for only the data they enter to the system. In case of international users, they will be subjected to the applicable laws in that country. So, the software has no legal barriers.

2.1.6 Religious-Cultural Feasibility

This system will never ask the user of their religion or cultural origin and ergo will not act in any way whatsoever that may hurt the sentiments of any cultural or religious group. The product development or operation will never undergo any process that might be unacceptable to a specific religion or culture. The software itself will be generic and impartial. So, no religious or cultural issues should disrupt the system.

2.1.7 Socio-Political Feasibility

This software, being a simple notice board system, will by no means cause any alarms or questions in the society nor will it challenge any existing social conventions. Further, the software will not contradict or interfere in any way with the political happenings. The software will not be used as a means of campaign or promotion or a specific political or social organization. So, the software is socially and politically feasible.

2.2 Software Paradigm: -

To create a system that is useful for designing a web site the development of a working prototype of an interface that is tested by a user community test and refined until a suitable interface has been designed as a final product. This is this prototype model of this project. In this one define the design of this project how this project can be implemented.

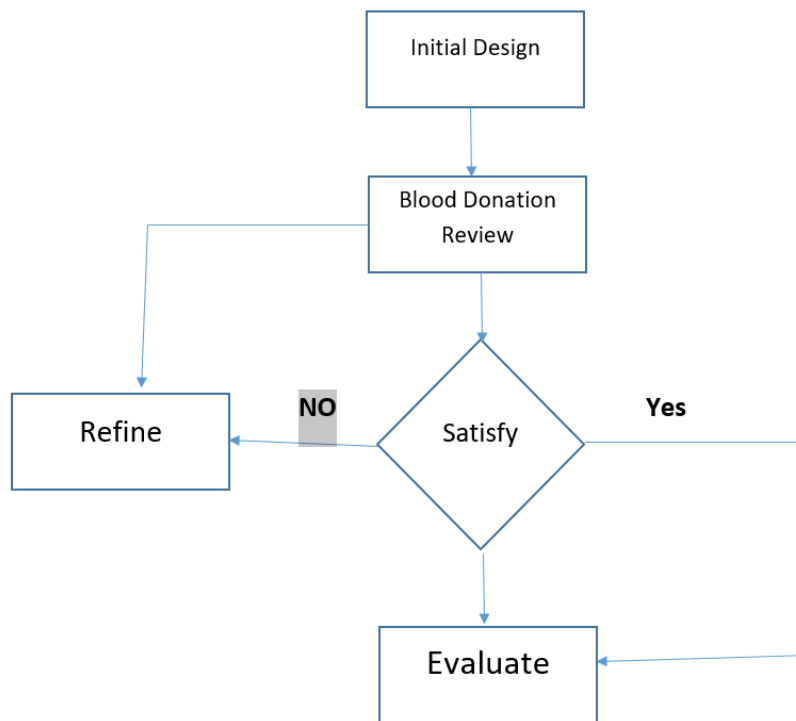


Fig:1 Software Prototype Model

2.2.1 Waterfall Model: -

In this project, waterfall model has been adopted in sequential manner. The first phase is registration phase, where the user visit to the website and register themselves. After that user can work on the other functionality of the website. After complete the registration or fill all the details the user can go to the next phase just like waterfall model so now user can login. If this phase is successful, then the other user can and search the donor.

After complete the designing part one go for the coding phase in the coding phase user do coding in each and every part. Without coding the design phase can't work because each phase is depending on the other phase. As well as without design phase coding phase has no meaning so everything is dependent on each other so that if one phase fails so it will effect on the other phase also. So there is the main problem in this website so to overcome this issue one use the spiral model.

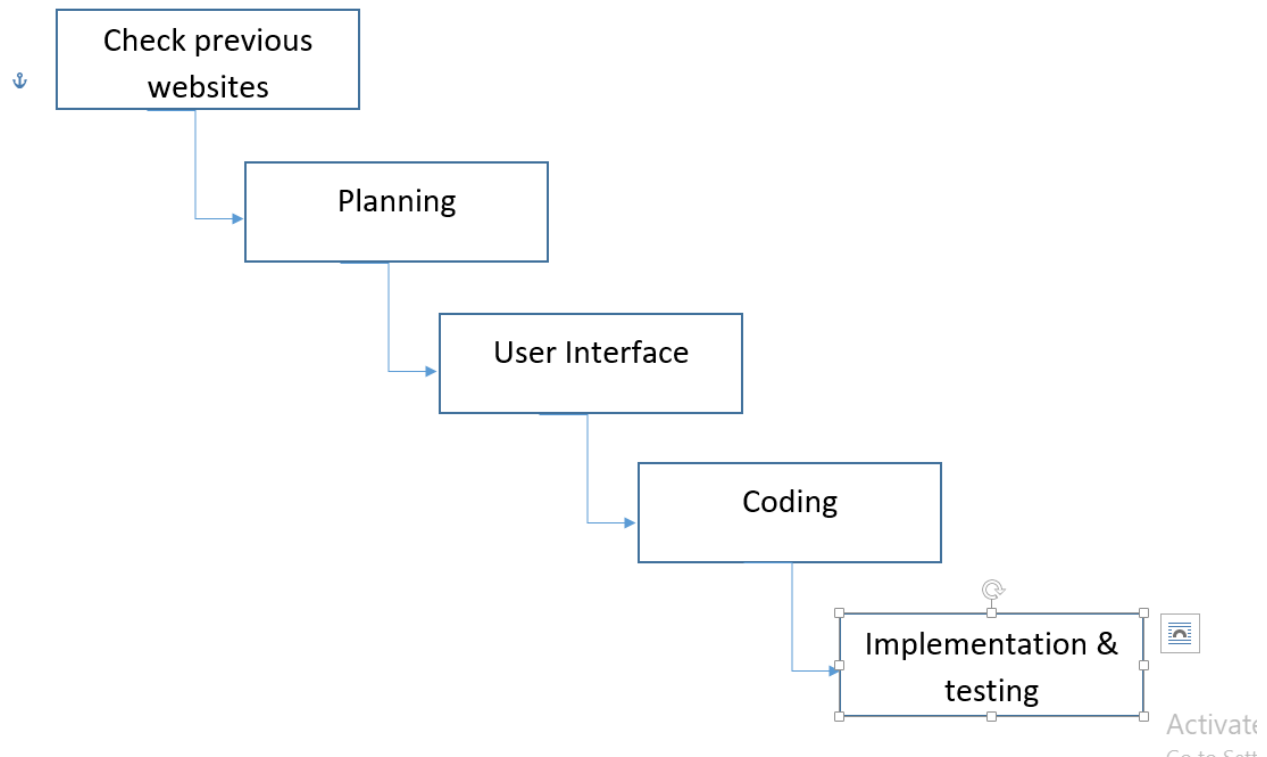


Fig: 2 Waterfall Model Diagram

2.2.2 Spiral Model: -

To overcome the limitation of the waterfall model that use the spiral model it is also known as risk analysis model to use this model for reduce the risk of the software failure in this to check each phase again and again if the coding can be done firstly then after that one design the structure and complete the UI phase and next reach to combine the coding and the design phase so to reduce the risk of this software one use the spiral model.

In spiral model each and every phase can check again and again so that in this project can work on the spiral model like in spiral model this project can work on same phase again and check that phase can be work properly if this 1st phase can't be work properly then one can go back the 1st phase after complete all the phases. Reach the 1st phase again and check the code if the code is not work properly so in that case to rectify these phases again and do the code

So in that scenario one can done this project risk free if once that code and in future is there any problem in any of the phase one can rectify doing in the coding and if anyone wants to modify that project so he can do modification in this project easily. Because its user interface made simply but there is a complexity in between the coding and the database in this project, one not uses the simple database one also uses the stored procedure which will increase the security of this project

2.3 Class Diagram

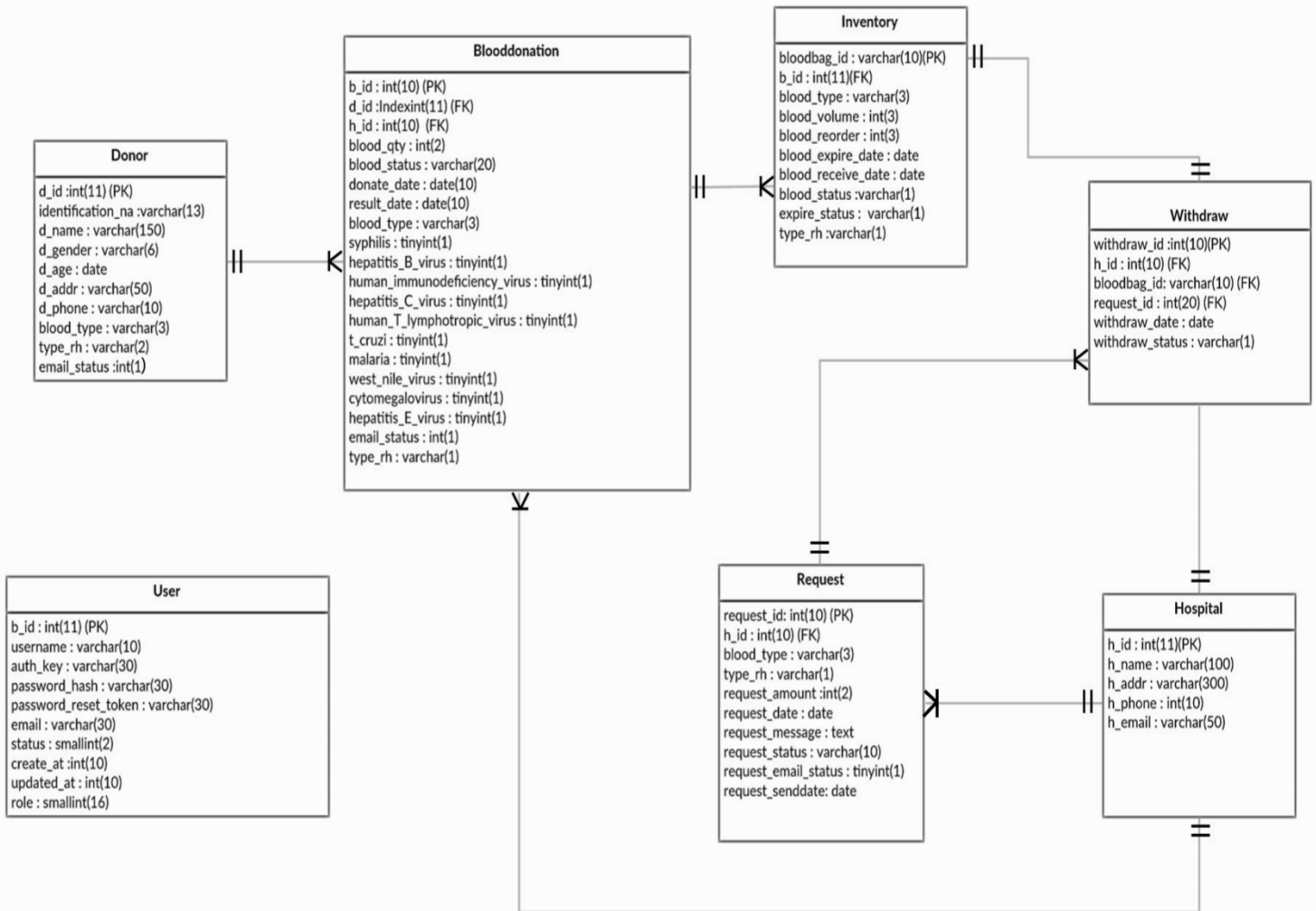


Fig 3: Class Diagram of Blood Bank Management

2.4 Pert Chart

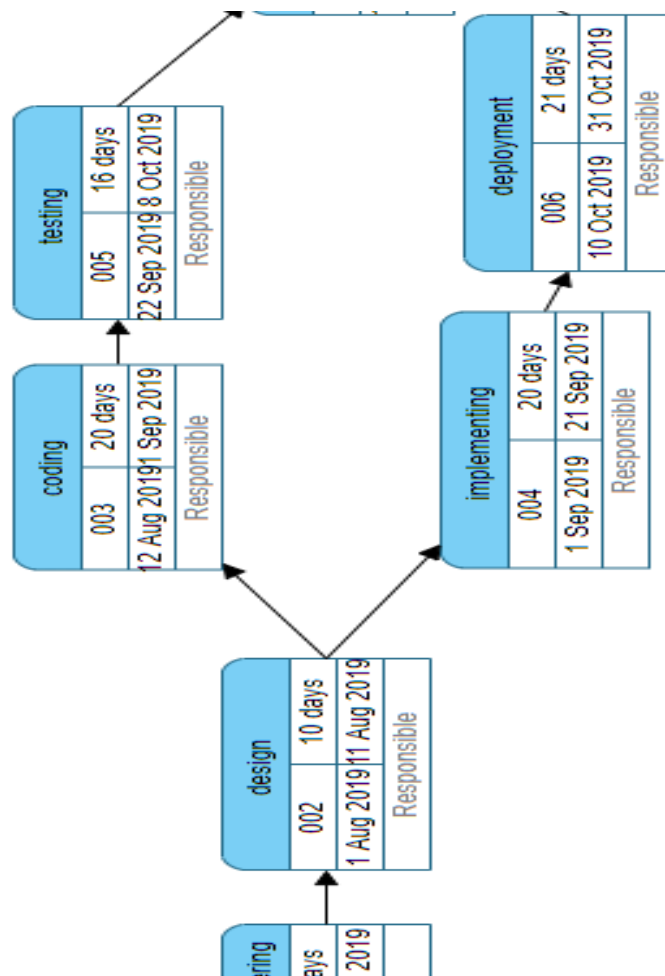


Fig 4: Pert Chart

2.5 Gantt Chart

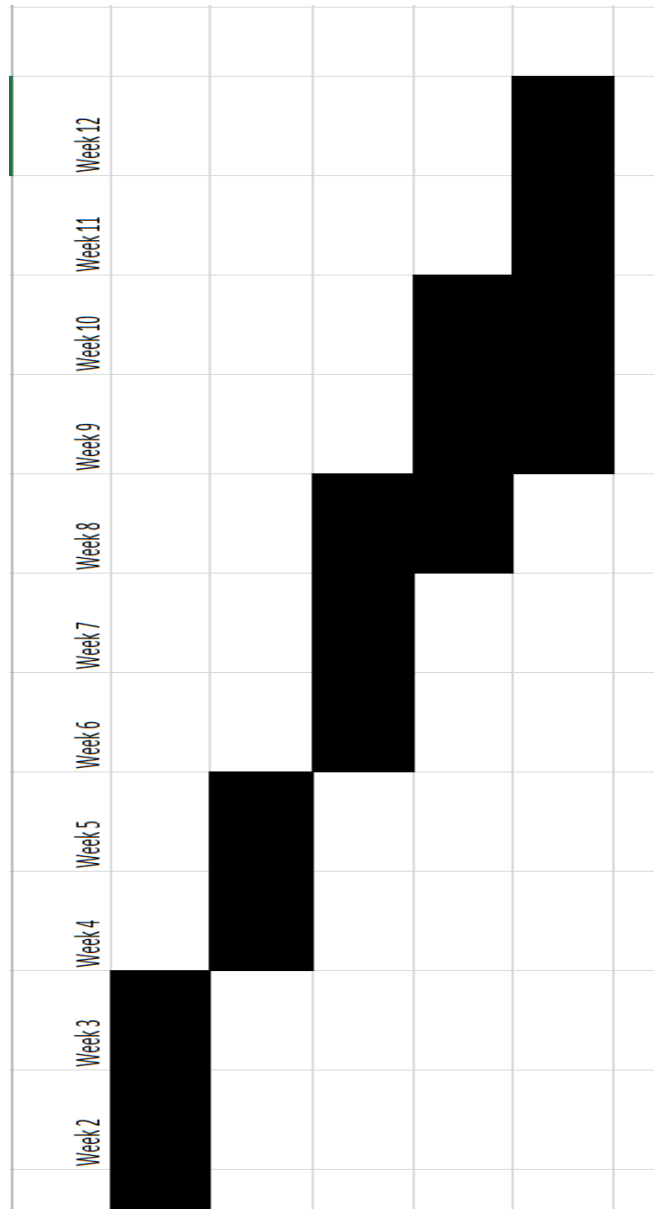


Fig 5: Gantt Chart

Chapter-3:

System Design

3.1 Use Case: -

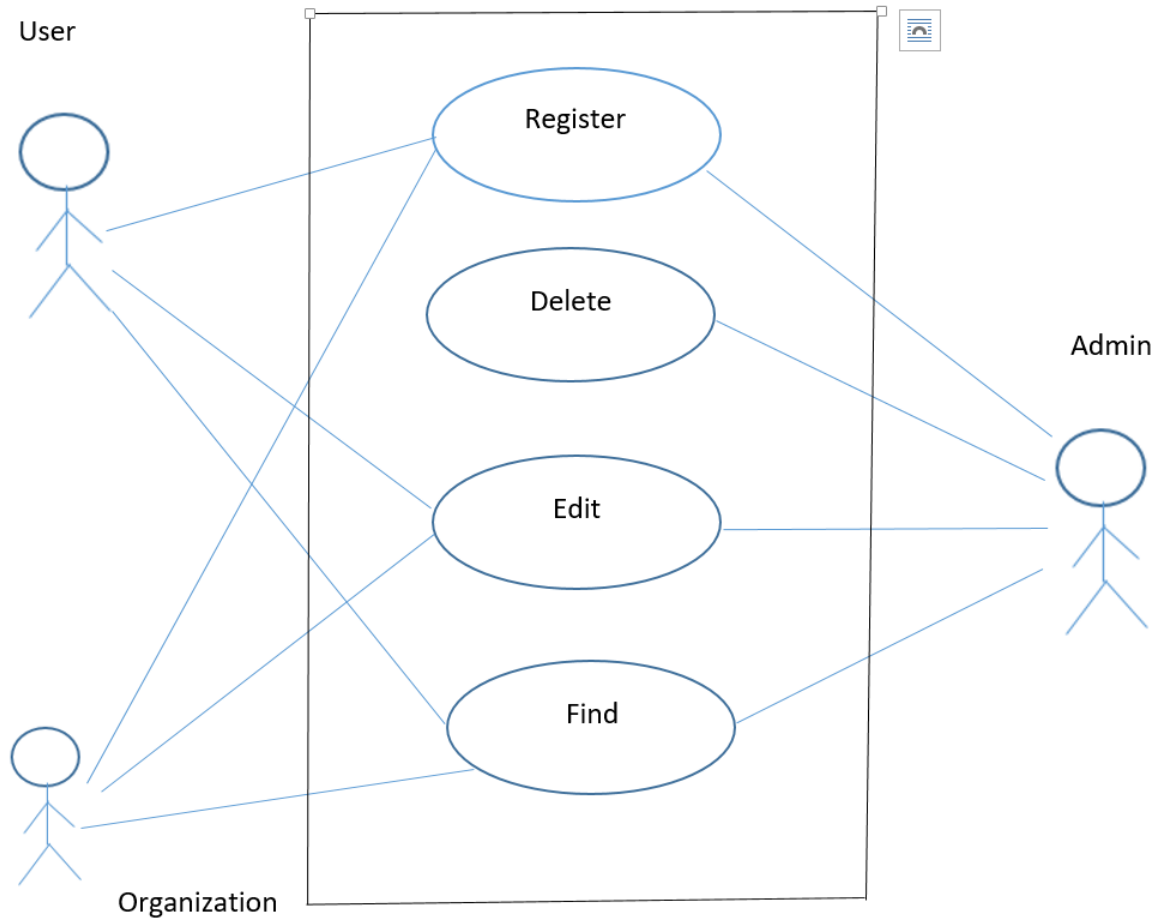


Fig 6: Use Case Diagram

3.2 User Interface

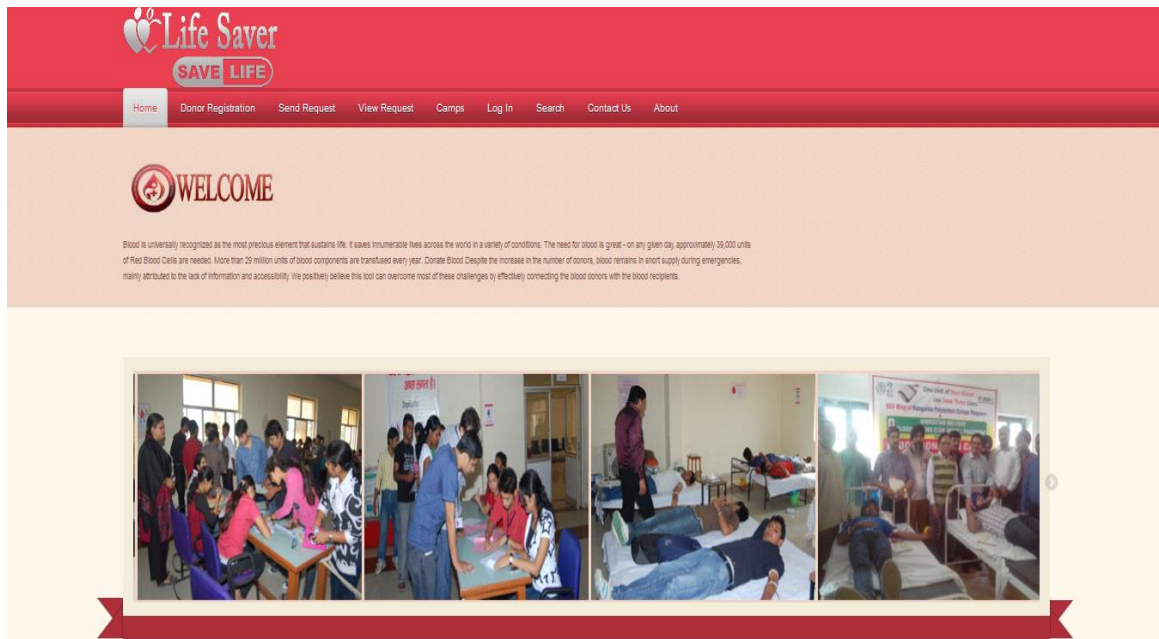


Fig 7: Home Page

The screenshot shows the Donor Registration page of the Life Saver website. The header is red with the 'Life Saver' logo and a 'SAVE LIFE' button. A navigation menu includes Home, Donor Registration, Send Request, View Request, Camps, Log In, Search, Contact Us, and About. The main content area is titled 'Donor Registration' and features a form with the following fields: Donor Name, Gender (Male/Female), Age, Mobile No, Blood Group (Select), E-Mail, Password, Confirm Password, and Upload Pic (with a Browse... button). A red 'Resitred' button is at the bottom. A vertical banner on the left reads 'I WANT TO BECOME A DONOR'. The footer includes a navigation menu and a copyright notice: '© All Rights Reserved | Design by Mr. Bhatia |'.

Fig 8: Registration page of Life Saver

Life Saver
SAVE LIFE

Home Donor Registration Send Request View Request Camps Log In Search Contact Us About

Requests For Blood

Name:

Gender: ☒ Male ☐ Female

Age:

Mobile No:

Select Blood Group:

E-Mail:

Till Required Date:

Detail:

Submit

Home Donor Log In About Contact Us © All Rights Reserved | Design by Mr. Bhatia |

Fig 9: Request for Blood page

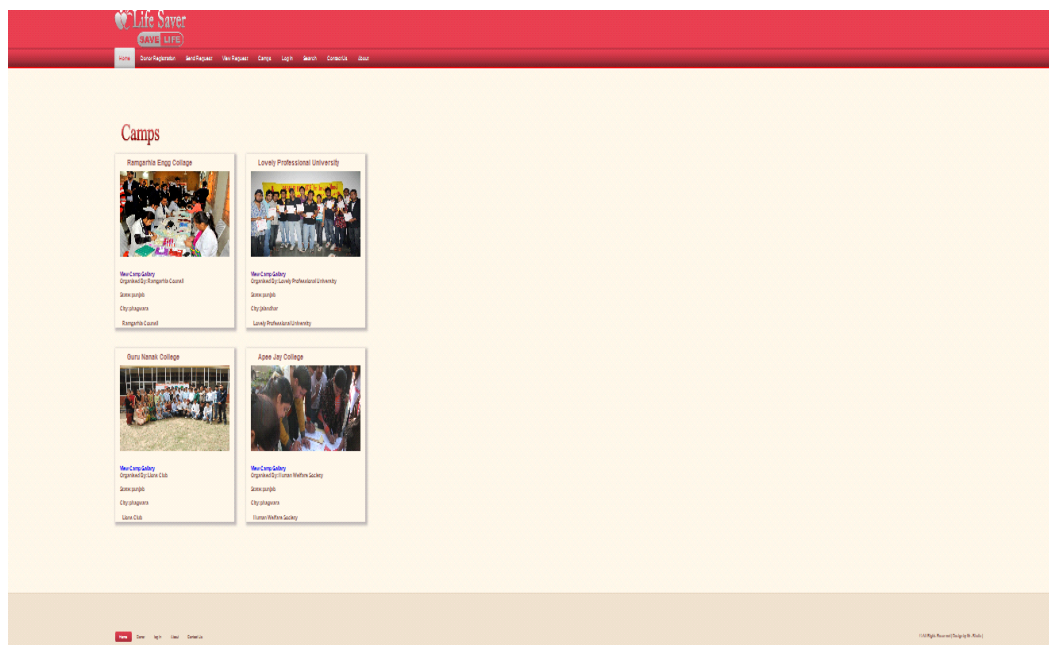


Fig 10: Camps of Blood group

Life Saver
SAVE LIFE

Home Donor Registration Send Request View Request Camps Log In Search Contact Us About

DONOR Log In

E-Mail

Password

Log In

Not A DONOR ? [Click here to REGISTER.](#)

Home Donor log In About Contact Us

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Fig 11: DONOR Log In

Life Saver
SAVE LIFE

Home Donor Registration Send Request View Request Camps Log In Search Contact Us About

Search

Select Blood Group

Search

Home Donor log In About Contact Us

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Fig 12: Search for Blood



Life Saver
SAVE LIFE

Home Donor Registration Send Request View Request Camps Log In Search **Contact Us** About



Name:

E-Mail:

Mobile No:

Subject:

Send Us



Contact Us

Address:

Opp :- Bawa Medical hall
Hargobind Nagar
Phagwara
Pin :- 144401
Phone :- 01824-12345
Email :- lifesaver@gmail.com

Home Donor log In About **Contact Us**

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Fig 13: Contact Us



Life Saver
SAVE LIFE

Change Password Update Profile Blood Donated View Donations View Requestes Log Out



**Welcome
To
DONOR
PANNEL**

Home Donor log In About **Contact Us**

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Fig 14: Welcome To Donor Panel

Life Saver
SAVE LIFE

Change Password Update Profile Blood Donated View Donations View Requests Log Out

Change Password [Password Icon]

Should I Change My Password ???

Old Password

New Password:

Confirm Password

Change

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Fig 15: Change Password

Life Saver
SAVE LIFE

Change Password Update Profile Blood Donated View Donations View Requests Log Out

Update Profile [Profile Icon]

Name

Gender ☐ Male ☒ Female

Age

Mobile No

Update

Activate Windows
Go to Settings to activate Windows.

Fig 16: Update Profile

Life Saver
SAVE LIFE

Change Password Update Profile Blood Donated View Donations View Requests Log Out

Blood Donated

Select camp

Date JAN 1

No Of Units

Other Detail

Save

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Fig 17: Blood Donated

Life Saver
SAVE LIFE

Preview Website Log Out


Admin Links

- Add User
- Update User
- Delete User
- Add City
- Update City
- Delete City
- Add State
- Update State
- Delete State
- Add Camp
- Update Camp
- Delete Camp
- Add Blood Group
- Update Blood Group
- Delete Blood Group
- Add Gallery
- Delete Gallery
- Add News
- Delete News
- Add Advertisement
- Delete Advertisement
- View City
- View State
- View Advertisement
- View News
- View Blood Group
- View camps

Welcome To ADMIN PANNEL

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Fig 18: Admin Panel



[Preview Website](#)
[Log Out](#)

Admin Links

- [Add User](#)
- [Update User](#)
- [Delete User](#)
- [Add City](#)
- [Update City](#)
- [Delete City](#)
- [Add State](#)
- [Update State](#)
- [Delete State](#)
- [Add Camp](#)
- [Update Camp](#)
- [Delete Camp](#)
- [Add Blood Group](#)
- [Update Blood Group](#)
- [Delete Blood Group](#)
- [Add Gallery](#)
- [Delete Gallery](#)
- [Add News](#)
- [Delete News](#)
- [Add Advertisement](#)
- [Delete Advertisement](#)
- [View City](#)
- [View State](#)
- [View Advertisement](#)
- [View News](#)
- [View Blood Group](#)
- [View camps](#)

Update User

Select User Name

Select
Show

Password

Confirm Password


Type Of User

Select

UPDATE

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Fig 19: Update User



[Preview Website](#)
[Log Out](#)

Admin Links

- [Add User](#)
- [Update User](#)
- [Delete User](#)
- [Add City](#)
- [Update City](#)
- [Delete City](#)
- [Add State](#)
- [Update State](#)
- [Delete State](#)
- [Add Camp](#)
- [Update Camp](#)
- [Delete Camp](#)
- [Add Blood Group](#)
- [Update Blood Group](#)
- [Delete Blood Group](#)
- [Add Gallery](#)
- [Delete Gallery](#)
- [Add News](#)
- [Delete News](#)
- [Add Advertisement](#)
- [Delete Advertisement](#)
- [View City](#)
- [View State](#)
- [View Advertisement](#)
- [View News](#)
- [View Blood Group](#)
- [View camps](#)

Add City

City Name

Pin Code

District


State

Select

SAVE

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Fig 20: Add City



[Preview Website](#)
[Log Out](#)

Admin Links
[Add User](#)
[Update User](#)
[Delete User](#)
[Add City](#)
[Update City](#)
[Delete City](#)
[Add State](#)
[Update State](#)
[Delete State](#)
[Add Camp](#)
[Update Camp](#)
[Delete Camp](#)
[Add Blood Group](#)
[Update Blood Group](#)
[Delete Blood Group](#)
[Add Gallery](#)
[Delete Gallery](#)
[Add News](#)
[Delete News](#)
[Add Advertisement](#)
[Delete Advertisement](#)
[View City](#)
[View State](#)
[View Advertisement](#)
[View News](#)
[View Blood Group](#)
[View camps](#)

Update City
Select city
City Name
Pin Code
District
State

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Fig 21: Update City



[Preview Website](#)
[Log Out](#)

Admin Links
[Add User](#)
[Update User](#)
[Delete User](#)
[Add City](#)
[Update City](#)
[Delete City](#)
[Add State](#)
[Update State](#)
[Delete State](#)
[Add Camp](#)
[Update Camp](#)
[Delete Camp](#)
[Add Blood Group](#)
[Update Blood Group](#)
[Delete Blood Group](#)
[Add Gallery](#)
[Delete Gallery](#)
[Add News](#)
[Delete News](#)
[Add Advertisement](#)
[Delete Advertisement](#)
[View City](#)
[View State](#)
[View Advertisement](#)
[View News](#)
[View Blood Group](#)
[View camps](#)

Add Camp
Camp Title
Organized By
State
City
Upload Pic
Detail

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Fig 22: Add Camp



[Preview Website](#)
[Log Out](#)

Admin Links

- [Add User](#)
- [Update User](#)
- [Delete User](#)
- [Add City](#)
- [Update City](#)
- [Delete City](#)
- [Add State](#)
- [Update State](#)
- [Delete State](#)
- [Add Camp](#)
- [Update Camp](#)
- [Delete Camp](#)
- [Add Blood Group](#)
- [Update Blood Group](#)
- [Delete Blood Group](#)
- [Add Gallery](#)
- [Delete Gallery](#)
- [Add News](#)
- [Delete News](#)
- [Add Advertisement](#)
- [Delete Advertisement](#)
- [View City](#)
- [View State](#)
- [View Advertisement](#)
- [View News](#)
- [View Blood Group](#)
- [View camps](#)

Update Camp

Select camp:

Camp Title:

Organized By:

State:

City:


Old Pic:

Upload Pic:

Detail:

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Fig 23: Update Camp



[Preview Website](#)
[Log Out](#)

Admin Links

- [Add User](#)
- [Update User](#)
- [Delete User](#)
- [Add City](#)
- [Update City](#)
- [Delete City](#)
- [Add State](#)
- [Update State](#)
- [Delete State](#)
- [Add Camp](#)
- [Update Camp](#)
- [Delete Camp](#)
- [Add Blood Group](#)
- [Update Blood Group](#)
- [Delete Blood Group](#)
- [Add Gallery](#)
- [Delete Gallery](#)
- [Add News](#)
- [Delete News](#)
- [Add Advertisement](#)
- [Delete Advertisement](#)
- [View City](#)
- [View State](#)
- [View Advertisement](#)
- [View News](#)
- [View Blood Group](#)
- [View camps](#)

View Blood Group

| Blood Group Id | Blood Group Name |
|----------------|------------------|
| 13 | O+ |
| 14 | O- |
| 15 | AB+ |
| 16 | AB- |
| 17 | A+ |
| 18 | A- |
| 19 | B+ |
| 20 | B- |

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Fig 24: View Blood Group

Chapter-4: System Analysis and design

4.1 Access Level Analysis

In order to take closer look into what the system should do and how, it was necessary to decompose the system's functionalities based on the user type and levels of access. The three main user groups and access levels are:

4.1.1 Main System page (Index)

It is required for the system to provide a Main Page where any user will be able to access. The main functionality of this page will be to allow any user to search the database by using information such as quantity of donated blood, available blood and the groups, or any other general information which may not be considered confidential. The search capabilities of the main page might not be limited to the exact donor, but may for example provide the means for displaying any information that might be relevant but not confidential. The Main Page should also include a Login facility for any privileged or normal user to be able to have access to more advanced functionalities of the system.

4.1.2 The User Group

When a user has successfully logged into the system via Main Page Login facility, it will be necessary for the system to display a specific menu with all available options that can be carried out. Therefore, by taking into account the system requirements, it will be necessary to include options such as Enter donor details, search donor, Use Endnote Facilities, Produce Summary Information as well as an option that will be related to the appropriate User Guide. A Logout option will also be appropriate for the user to be able to logout when desired.

4.1.3 Entering- Amending Blood donor Details

For a user to be able to amend and enter into the system's database it will be essential to take into account that the blood donor system will be integrated to Endnote. Therefore, it will be essential for the system to provide to the user the exact fields and Endnote does for any particular type of details. In addition, when a particular one of a given donor has successfully been submitted or amended message (i.e. blood donor successfully entered into database).

4.1.4 Searching the Blood Donor Database

The Searching Facility for the user should not differ from the facility that will be provided on the Main Page of the system for all users. Therefore, user will be able to search any type of information on the database using the same way as specified for the Global User.

4.1.5 Producing Summary Information

For this requirement it is essential to firstly understand why and when it will be used and to adjust the functionality to best suit these purposes. In order for the system to efficiently produce summary information it will have to provide a menu providing options such as

Produce Annual Report, or Produce General Report etc.

4.1.6 Endnote Facilities

In order for the system to be effective, it will be necessary for it to be integrated with the Endnote software. Therefore, it will be very significant to accommodate two options that will include Importing blood particulars from Endnote and Exporting blood particulars to Endnote. How this will mainly rely on taking full advantage of particular Endnote filters that are provided for these reasons.

4.1.7 Administrator

For maintenance purpose it will be of great significance to include advanced Administrator functionalities that can only be accessed by this particular user group. The most reasonable option for an administrator to perform may include tasks such as deleting donors(should not be provided to the user or organization for security reasons), backing-up and restoring the database, resetting the blood donor databases etc. in addition to these functionalities the administrator may also be asked to perform tasks related to user(i.e. Entering new donors, Searching for given donor or available blood group) and therefore any functionality provided by the system must be included in the administrator capabilities

4.2 Task Structure Diagrams

By creating task structure diagram, we easy understand task and flow of user. Identifying the task of user and assigning task to user and admin makes the development of website more consistent and effective. In these diagrams we can know about tasks admin, user and organization are going to perform.

4.2.1 The User

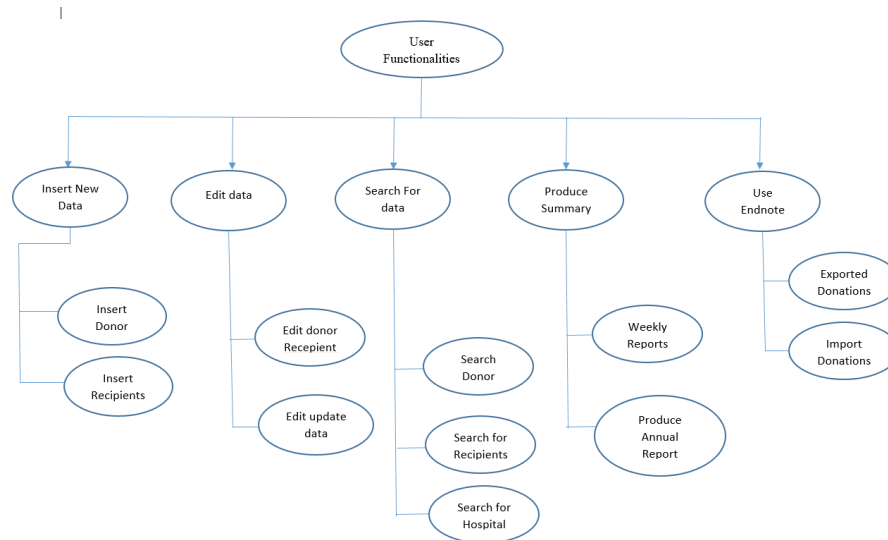


Fig 25: The User Task Structure Diagram

4.2.2 The Administrator User

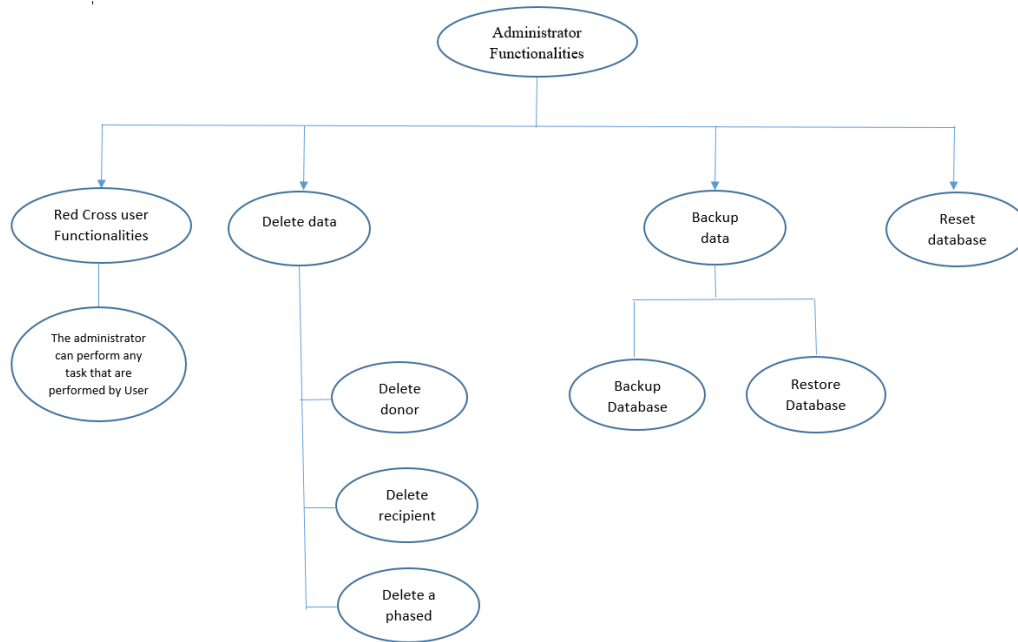


Fig 26: The Administrator Task Structure Diagram

4.2.3 The Global User task Structure Diagram

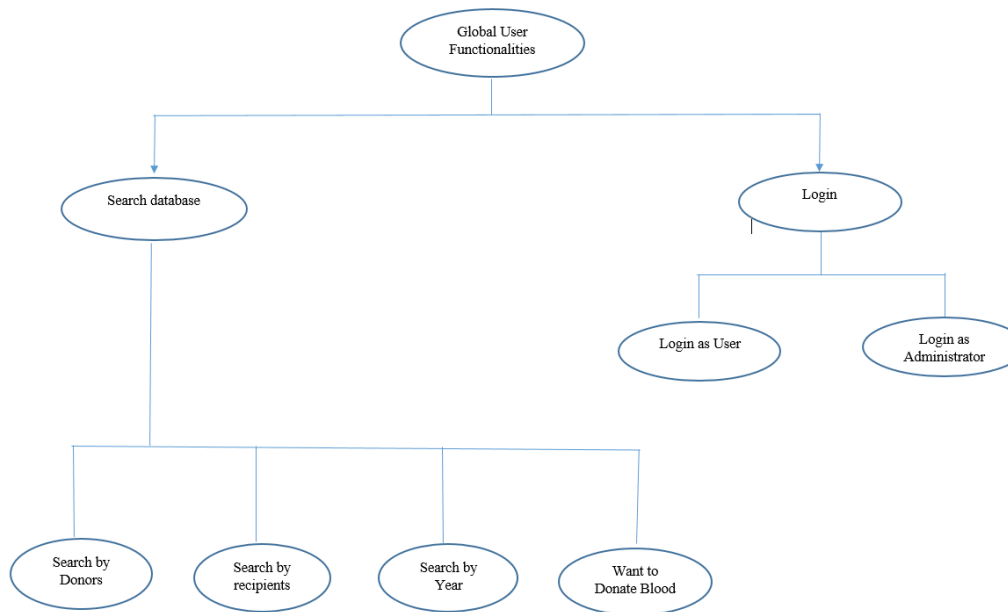


Fig27: The Global User Task Structure Diagram

4.3 Data integrity and constraints: -

Data integrity means in this project every column is depend on other column for that the id of the person of each table is same one use the primary key and the not null property to use the primary key so for that the data of the one user cannot copy or mix with the other user in every table that is user table, thread table the id remains same. The uniqueness of the project can have defined by the identification of the person that is the user enter the email id for sign in on that also one use the primary key that not more than one person can sign in with the same email id. One unique id is assigned to one person so that to identify of that person with this unique id. In table the data is inserted only the user is not registered previously with the same email id. Foreign key specify that tables has the field with the same name but they work differently. In this there are different types of integrity constraints.

- **Not null integrity constraint:** - In this type, the value of all the column is filled with the proper format that is provided by this project for example the email id is required field for that purpose user have to enter the email id in proper format that is abc@gmail.com if the user not fill this field he/she will not be entered to this site.
- **Unique integrity constraint:** - In this project, Online Blood Donation Management .only those users can login to the profile who had registered themselves.
- **Primary integrity constraint:** - In this project, the primary key is available in every table no user can enter more than one time the id can be provided to the user is primary id. The primary key is put on the id column of the table because the persons can have the same name but their id is unique and they are helpful to identify that person. In this project, one is taken care of these constraints that are necessary for this project for using these constraints this project can fulfill the requirement of the project.

4.4 Database Design

4.4.1 Database Screenshots

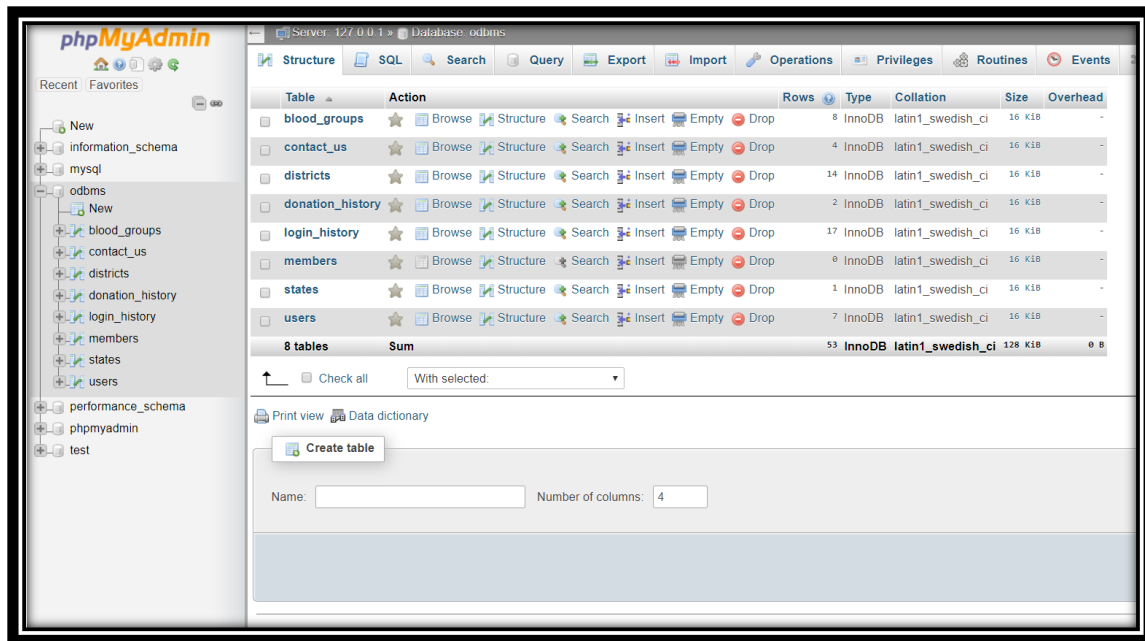


Fig 28: OBDMS Database

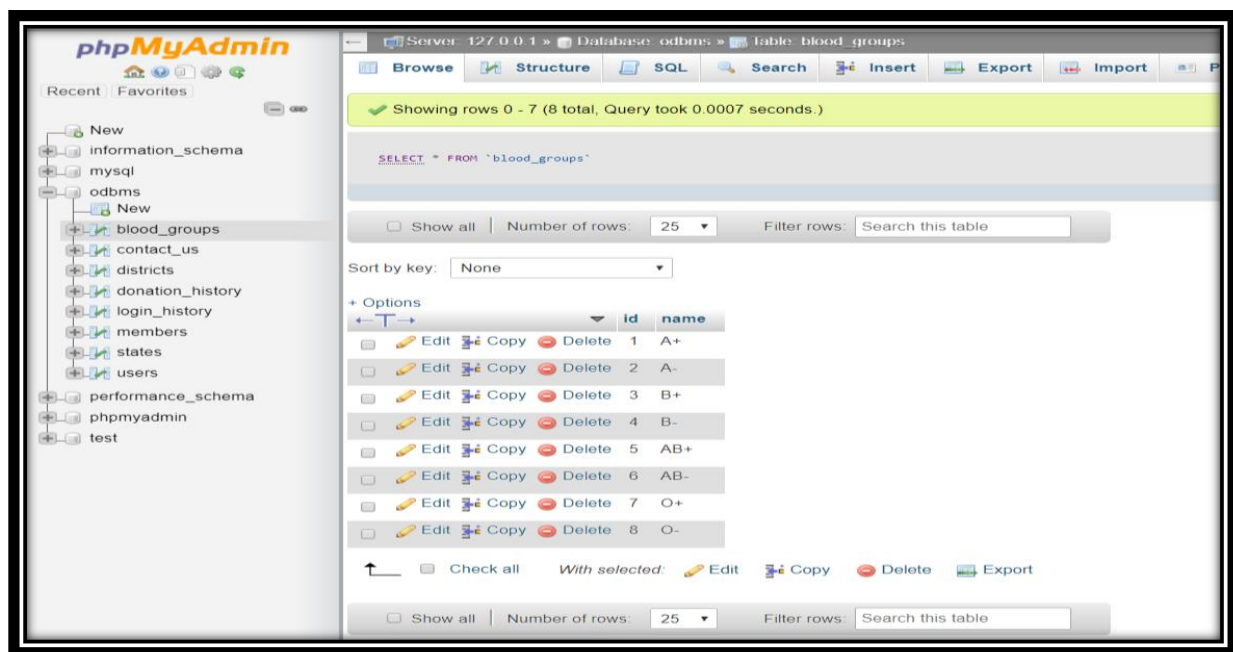


Fig 29: Blood Group database

phpMyAdmin

Recent

Favorites

New

information_schema

mysql

odbms

- New
 - blood_groups
 - contact_us
 - districts
 - donation_history
 - login_history
 - members
 - states
 - users
- performance_schema
- phpmyadmin
- test

Server: 127.0.0.1 » Database: odbms » Table: districts

Browse

Structure

SQL

Search

Insert

Export

Import

Print

☐ Show all

Number of rows: 25

Filter rows: Search this table

Sort by key: None

+ Options

id

name

state_id

| | | | | | | |
|--------------------------|------|------|--------|----|--------------------|---|
| <input type="checkbox"/> | Edit | Copy | Delete | 1 | Alappuzha | 1 |
| <input type="checkbox"/> | Edit | Copy | Delete | 2 | Ernakulam | 1 |
| <input type="checkbox"/> | Edit | Copy | Delete | 3 | Idukki | 1 |
| <input type="checkbox"/> | Edit | Copy | Delete | 4 | Kannur | 1 |
| <input type="checkbox"/> | Edit | Copy | Delete | 5 | Kasargod | 1 |
| <input type="checkbox"/> | Edit | Copy | Delete | 6 | Kollam | 1 |
| <input type="checkbox"/> | Edit | Copy | Delete | 7 | Kottayam | 1 |
| <input type="checkbox"/> | Edit | Copy | Delete | 8 | Kozhikode | 1 |
| <input type="checkbox"/> | Edit | Copy | Delete | 9 | Malappuram | 1 |
| <input type="checkbox"/> | Edit | Copy | Delete | 10 | Palakkad | 1 |
| <input type="checkbox"/> | Edit | Copy | Delete | 11 | Pathanamthitta | 1 |
| <input type="checkbox"/> | Edit | Copy | Delete | 12 | Thiruvananthapuram | 1 |
| <input type="checkbox"/> | Edit | Copy | Delete | 13 | Thrissur | 1 |
| <input type="checkbox"/> | Edit | Copy | Delete | 14 | Wayanad | 1 |

Fig 30: Districts Database

Server: 127.0.0.1 » Database: odbms » Table: contact_us

Showing rows 0 - 3 (4 total, Query took 0.0004 seconds.)

SQL: `SELECT * FROM `contact_us``

Options: Show all | Number of rows: 25 | Filter rows: Search this table

Sort by key: None

| | | | | id | name | phone | email | subject | message | created_at |
|--------------------------|------|------|--------|----|---------|-----------------|-------------------|----------|---------------------------|---------------------|
| <input type="checkbox"/> | Edit | Copy | Delete | 2 | akansha | 7895875161 | akansha@gmail.com | donation | do not disturb | 2019-11-04 19:22:34 |
| <input type="checkbox"/> | Edit | Copy | Delete | 3 | akansha | 7895875161 | akansha@gmail.com | donation | do not disturb | 2019-11-04 19:22:37 |
| <input type="checkbox"/> | Edit | Copy | Delete | 4 | akansha | 7895875161 | akansha@gmail.com | donation | do not disturb | 2019-11-04 19:22:40 |
| <input type="checkbox"/> | Edit | Copy | Delete | 5 | rj | 789587516124242 | RJ@gmail.com | donation | do not disturb SDSADDDDSA | 2019-11-04 20:13:29 |

Check all | With selected: Edit Copy Delete Export

Options: Show all | Number of rows: 25 | Filter rows: Search this table

Query results operations: Print view Export Display chart Create view

Fig 31: Contact us

phpMyAdmin

Recent

Favorites

New

information_schema

mysql

odbms

New

blood_groups

contact_us

districts

donation_history

login_history

members

states

users

performance_schema

phpmyadmin

test

Server: 127.0.0.1 » Database: odbms » Table: login_history

Browse

Structure

SQL

Search

Insert

Export

Import

Priv

Show all

Number of rows: 25

Filter rows: Search this table

Sort by key: None

+ Options

<

Fig 32: Login History Database

Server: 127.0.0.1 » Database: odbms » Table: donation_history

Showing rows 0 - 1 (2 total, Query took 0.0004 seconds.)

Options: Show all | Number of rows: 25 | Filter rows: Search this table

Sort by key: None

| | | | | id | user_id | date |
|--------------------------|------|------|--------|----|---------|------------|
| <input type="checkbox"/> | Edit | Copy | Delete | 1 | 1 | 2019-10-14 |
| <input type="checkbox"/> | Edit | Copy | Delete | 2 | 1 | 2019-10-21 |

Query results operations: Print view | Export | Display chart | Create view

Fig 33: Donation History Database

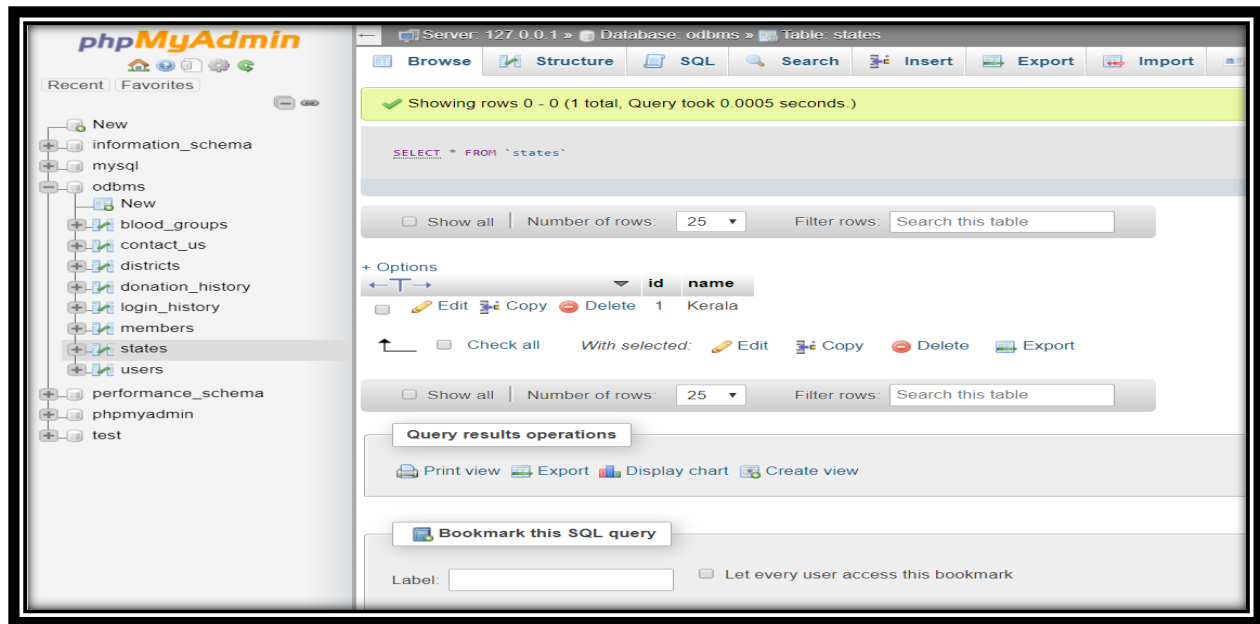


Fig 34: States Database

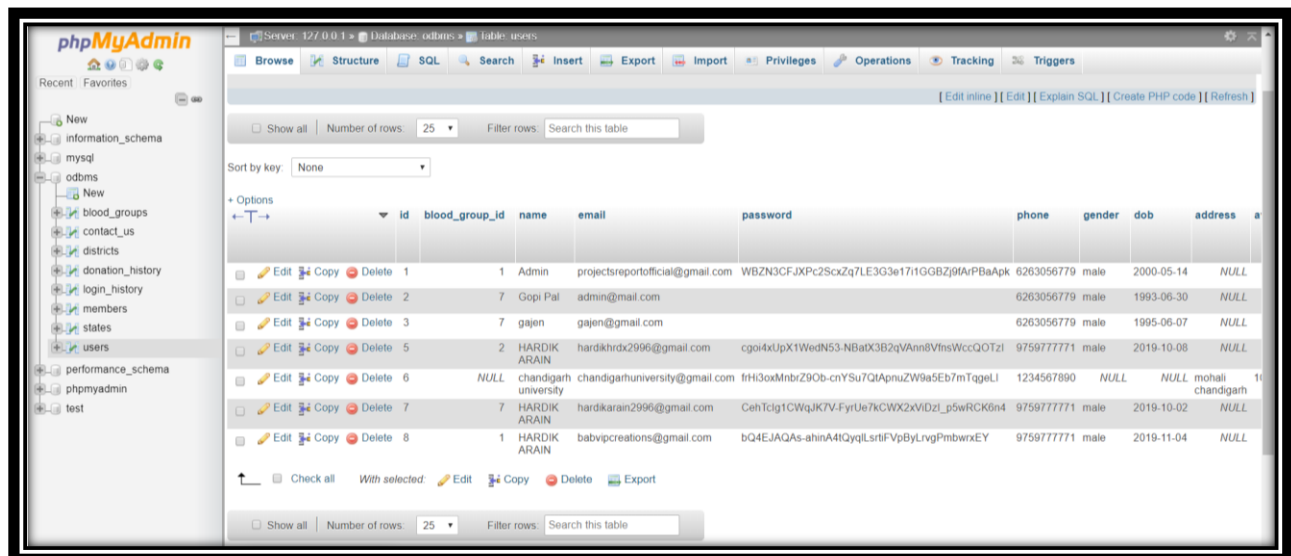


Fig 35: Users Database

DATABASE TABLE

Table: - blood_groups

Table: - Contact_us

| Column | Type | Description |
|------------|---------------|---|
| Id | int (11) | Unique key of each user |
| Name | varchar (10) | List of blood groups |
| Column | Type | Description |
| Id | int (11) | Unique value of each user |
| Name | varchar (200) | Name of user |
| Phone | varchar (50) | Phone number of user |
| Email | varchar (200) | Email of user |
| subject | varchar (200) | Subject of donation |
| message | varchar (500) | Want to know about anything related to blood donation |
| Created_at | Timestamp | Which time the user sends the request |

Table: - Districts

| Column | Type | Description |
|----------|---------------|------------------------------|
| Id | int (11) | Unique value of each state |
| Name | varchar (200) | Name of the state |
| State_id | int (11) | Particular id for each state |

Table: - donation_history

| Column | Type | Description |
|---------|----------|------------------------|
| Id | Int (11) | Unique id of the donor |
| User_id | Int (11) | Id for the user |
| Date | Date | Date of entry |

Table: - login_history

| Column | Type | Description |
|-----------|-----------|--------------------|
| Id | Int (11) | Unique id of login |
| User_id | Int (11) | User id of user |
| Login_at | Timestamp | Time of login |
| Logout_at | Timestamp | Time of logout |

Table: - states

| Column | Type | Description |
|--------|---------------|--------------------|
| Id | Int (11) | Unique id of state |
| Name | Varchar (200) | Name of the state |

Table: - users

| Column | Type | Description |
|------------------|---------------|---------------------------------------|
| Id | int (11) | Unique id of the user |
| blood_group_id | int (11) | Blood group id |
| name | varchar (200) | Name of the donor |
| email | varchar (200) | Email of the donor |
| password | varchar (200) | Password of each account is encrypted |
| phone | varchar (50) | Mobile number of the user |
| gender | varchar (10) | Gender of the user |
| Dob | Date | DOB of the user |
| address | varchar (500) | Address of the user |
| avg_no_employees | varchar (10) | No of employee in organisation |
| location | varchar (200) | Location of the user |
| state_id | int (11) | Unique id of the state |
| district_id | int (11) | Unique id of the district |
| Img | varchar (500) | Image of the user |
| created_at | Timestamp | Time stamp of created account |
| Status | int (2) | Status is online or offline |

| | | |
|--------------|---------|---------------------------|
| user_type | int (2) | User is doner or receiver |
| availability | int (2) | Availability of the blood |

Chapter 5:

Test cases

5.1 Tests

The requirement analysis stage involves the design of test cases for the completed system. Test cases are specification of inputs to the test and the expected output from the system plus a statement of what is being tested. (Sommerville,2004)

5.1.1 Designing of test cases

The approach followed at this stage can be termed as requirement-based testing – test cases are designed to test the system requirement. For each requirement, test cases were identified to demonstrate that the system meets the requirement. It is a general principle in software engineering that requirement should be testable. This requirement testing is a validation test because it demonstrates that the system has properly implemented the requirements.

Test Case 1:

Title: Index Page

Description: Is index page easy to reach and visit throughout

Assumption: the index page should be easy to reach and open links provided in it.

Test steps:

1. Enter URL to open the website.
2. Scroll the entire website.
3. Open and check the navbar links.

Expected Result: as expected the index page is up to the mark.

Test Case 2:

Title: Registration Page

Description: are user able to register themselves

Assumption: user should register themselves after filling registration form.

Test steps:

1. Click on register from navbar.
2. A registration forms open.
3. Fill the requirement you are asked for.
4. Choose your username and password. And remember it
5. Click on 'register'.

Expected Result: After clicking on register, message will be displayed 'user is been registered'.

Test Case 3:

Title: Login Page

Description: checking whether user is able to login to their profile after registering themselves.

Assumption: user login to their profile and access it successfully

Test steps:

1. Open login page.
2. Enter your login id and password you created at the time to registration.
3. Click login.

Expected Result: User is successfully logged in.

CONCLUSION

It is concluded that this project is well planned and executed according to its requirement. This website will work well and satisfy current users and future users as well. It is Every well investigated and all the bugs and errors are being fixed. The site works consistent with the restrictions provided in their individual browsers the speed of the transactions become a lot of enough currently during this site the utilization will search the acceptable donor and receiver .This project main aim is to help Blood bank to automate blood donor and depository online .It also encourages blood donor to donate. It will help people find blood donors in times of need. It focused more on the acquisition, distribution and management of blood units for blood donation activities.

The study specially emphasized the creation and implementation of an electronic management information system that automated blood donor data acquisition and dissemination of results. This in turn will case and speeds up the planning, decision making process because of the timely, secure, confidential and reliable reports.It is necessary for people to be aware about donors and blood group so that they can ask for help. Even donors should also be updated and know about people who need them. This way we can help each other in better way.

To let this happen we need a way so that we can reach everyone quickly and easily. For this this website is being designed, from can find the blood donors on remote location easily and contact them.

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