1. Project Profile

1.1 Definition :-

→ Blood Bank Management system is a browser based solution that is designed to store, process, retrieve and analyze information concerned with the administrative, inventory management und Clinical aspects of providing services within a blood bunk.

> The main goal of the Blood Bank Management System Project is to monitor Blood Bank data, Blood Stock, Donor List. It manages all the Blood Bank, Donor, Blood Stock data.

> Blood bunks collect, Store and provide collected blood to the Patients who are in need of blood.

1.2 Scope:-

→The scope of the project is that in a very she Spun It Provides user with many Facilities. It Provides an elegant management of blood, list Of hospitals, blood bank and donors online.

→ The main purpose of this project is to interconnect on the blood banks, hospitals, donors into a single network, validation. Store various data and information of blood and health of ed individual.

This system is used to Store data over a Centralized Server which consist of database where the Individual's information cannot be accessed by a third Party.

→ This system is used for maintain whole information about Campus. In this project mainly 3 modules are there.

1. Admin

2. Donors

3. Acceptors

1.3 objective:-

→ The main objective of the Blood Bank Management System is to manage the details of Blood, Donor, Blood Group, Blood Bank, Stock. It manages all the information about Blood, Stock, Blood.

-> The Project is totally built at administrative and thus only the administrator is guaranteed. the access.

-> The Purpose of the project is to build an web. application program to reduce the manual work for managing the Blood, Donor, Blood Group.

→ The all details about the Blood Group, Blood Bunk, Stock.

2 System Analysis and Specification

2.1

Existing system:-
-> eRaktKosh
link:- https://www.eruktkosh.in
→eRaktkosh was Inaugurated on 7th April τας by Hon'ble Minister of Health and family welfare, Sh. JP Naddu.
→ eRaktkosh enforces Drug & cosmetic Act, National blood Policy standards and guidelines. ensuring Proper collection & donation, effective management and monitoring the quality and quantity of the donated blood.
→ Considering the national roll out, eRaktkosh has been developed with module and Scalable approach with configurable rule bused architected allowing customization to easily incorporate specific requirements From national wide Stakeholders.
-> The bio metric Donor Management System For identifying, tracking and blocking donors based on donor's health, donation history etc.

2.2 Limitations of Existing System
→ No knowledge of toll free troubleshooting. Support.
→ Manual document and dater entry.
→ only web bused system is available no mobile based system available.
→Less Security.
→ No Proper coordination between different Applications and Users.
→ Cannot Upload and Download the latest updates right time.
→ Very difficult to manage changes blw the Phases there are possibility of blocking which con Slow down the productivity and efficiency of the Process.
→ internet issue.
-> works for medium size information database

2.3 Feasibility Soudy.
-> Feasibility study is test of a system Proposal according to its workability, impact on the organization, ability to meet user needs and effective use of resources. All the project are Feasible given unlimited resources and infinite. time 1 Ergo, Feasibility study means an evaluation of benefits versus costs incurred in developing Projects, where cost Includes manpower, time, resources and money.
-> A Purpose or Feasibility study is to check out the Possibility of a Computerized Solution to the organization's observed Problem before very much money that has been Spent on.
->A Feasibility study is carried out to select the best system that meets Performance Requirements only by Spending the time to evaluate the feasibility do I reduce the chances for extra me embarrassment at later stage of the System Project.

Technical Feasibility
-> Technical analysis evaluates technical merits of the system at the Same time collecting additional information about performance, reliability mumtainability and Productivity. In Some cases this system analysis Step also includes a limited. amount of research and design.

Economic Feasibility
→ Among the most important information contained in feasibility Study is the cost benefit Analysis. That is, in assessment of economic justification for computer based System. Cost-

benefit analysis delineates cost for development and weight then against tangible and intangible benefits in the System.

Operational Feasibility
-> Operational Feasibility measures how well the Solution will work in the organization and how will end-user a management feels about the System. Proposed system is helpful for all the users associated with the organization.
→ It will allow the administrator to have up-to- date information regarding all the aspects of their users. The decision-making process will also. become faster with the use of dutuintegration, Consolidation.
->So it is Feasible to implement the system.

Schedule Feasibility
→ Projects are initiated with specific deadline need to evaluate whether the deadlines are mandatory or desirable. Time is the one of the critical in the development of any system bur kind of feasibility is hardly Perfect in any System
-> we have been asked to Complete the project within the working days of the college having Period of 1-2 months approximately.
-> So we have managed to Complete the development Purt of the project before given deadline In the Project Planning Section we elaborate our plan to develop the system within the given Period.
→ Hence, it is feasible to develop a system in Pre determined time interval.

2.4 Need Of New System.
-> The Purpose of the online Blood Bank Management System is to collect data about donors and Seekers who are interested in blood or who require it.
→Anyone who wants to sign up to donate blood can do So through this web application like any. one who wants to sign up to this website can. do so. In additional, this websites makes it Possible for any general consumer to request blood amine. & receive request blood online.
-> The admin is the primary authority if necessary and modification can perform addition, deletion, and modification.
→These technologies help in the automated request blood online, sample, Storage, testing with the hospital and cross-matching of donors.
->To Perfect the details and All request list Automated.

2.5 Front End & Backend Tools
=> FrontEnd Tools

HTML:-

→ HTML Stands For Hyper Text Markup Langu
→ HTML is standard markup language for creating web pages.
→ HTML describes the Structure of a web page.
→ HTML elements label pieces of content Such "this is a heading", "this is a paragraph", "this a link, etc.....

CSS :-
→ CSS stands for cascading Style Sheets.
→ css describes how HTML elements are to bel displayed on screen, paper, or in other media.

→ Css Saves a lot of work. It can control the layout of multiple web pages all at once.

Java Script :-
→ Java Script is the programming Language For the web.
→ JS can Update and change both HTML and CSS.
→JS Contain logical part of a website.

=> Buck End Tools.

PHP:
→ Php is an acronym for "PHP: Hypertext preprocessor”
→ php is a widely used, Open Source Scripting Language.
→ php Scripts are executed on the Server.
→ php is free to download and use.
→ Php can Contain text, HTML, CSS, JavaScript, and Php Code Php code is executed on the server, and the is returned to the browser as Plain HTML.

=> PHPMYADMIN:-
→ phpMyAdmin is a Free Software tool written in PHP that is intended to handle the administration. of a Mysal or MariaDB databuse Server. You can use phpMyAdmin to perform mast administration tasks, including creating a dutabuse, Junning quenes and adding user accounts..

3 System Requirement Specification

3.1 Proposed system and Advantages

=> Proposed system:-

→ The project blood bunk management System is known to be a pilot project that is designed for the blood bunk to gather blood from various Sources and distribute it to the needy People who high requirements for it.

→The website is designed to handle the daily transactions of the blood bank and search the details when required. It also helps to register the details of donors, blood collection detalls as well as bland issued reports.

→ The website application is designed in such manner that it can sult the needs of ain the blood bank requirements in the course of Future.

→This system is used for maintain whole information about Campus. In this project mulniy 3 modules are there.

1. Admin 2. Donors 3. Acceptors

=> 1. Admin:-

-> This module Focuses on the both donors & acceptors. Each member in a donor & acceptor is given a user id and password, which identifies him uniquely. member is given a Form. He enters the login details user id and password... The options given to,

- Change Password
- Maintain donor details.
- Maintain acceptor details
- Update donor details Update acceptor details.
-Logout

=>2.Donor :-

→ Each member in a Donor is given a user id and password, which identifies him uniquely. The member is given a login form. He enters the login details user id and pussword. The option given to a each member in a stuff are,

- Change password
-Find a blood group
- why donate blood
- Logout

=> 3. Acceptor:-

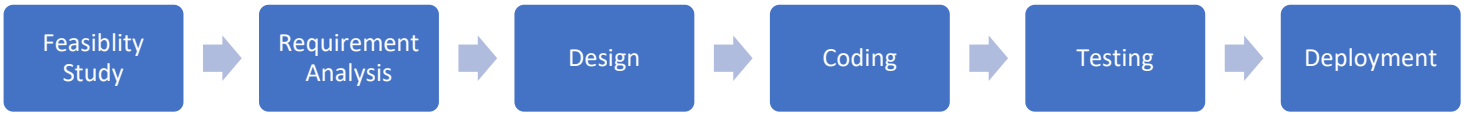
Students. In this you can store the Information about acceptors.

- Change password
- Find a blood group
-Who needs blood
-Logout

=> Advantages:-

→ Easy to understand and Implement.
→Testing in each phase.
-> Documentation Available after each Phase.
->Most Suiable for single projects where work products are well defined and their functioning is understood.

3.2 Development Strategy Model



=> Feasibility & Requirement Analysis :-

→ First of all we decided definition. According. to that we visited many websites related to management systems and gathered all necessary related information and requirements.

→Feasibility Study.

=> planning:-

→After gathering all necessary information and requirements we decided the technology Phe with language Php in which we have made our web application. We estimated time duration for the whole project and Follow the different m -ules in order that when to do what?

=> Designing:-

In designing we analyzed the application. and designed and explained our application using different Unified Modeling Language CUML) diagrams.

=> Coding & Testing :-

In Coding Stage we have done coding For the Blood bunk management Script and after Finishing Coding we designed the project in HTML. Then we tested the whole project and Solved all errors those are cume during coding and designing.

=> Deployment :-

→ After making whole web application, accord -ing to the project we have made this Project and going to deploy it to the consulted Faculty.

→Waterfall Madel is well understood to the analyst, designer, and developer. If the paujet was done in team then also requirement cycle is also not needed..

=> Advantages :-

1. Easy to understand and implement.

2. Testing in each phase.

3. Documentation Available after each phase.

4. Mast Suitable for single projects where work. Products are well definded and their functioning is understood.

=> Disadvantages:-

1. Once detecting error at any face it may be requires that the precede Subsidy Faces may change.

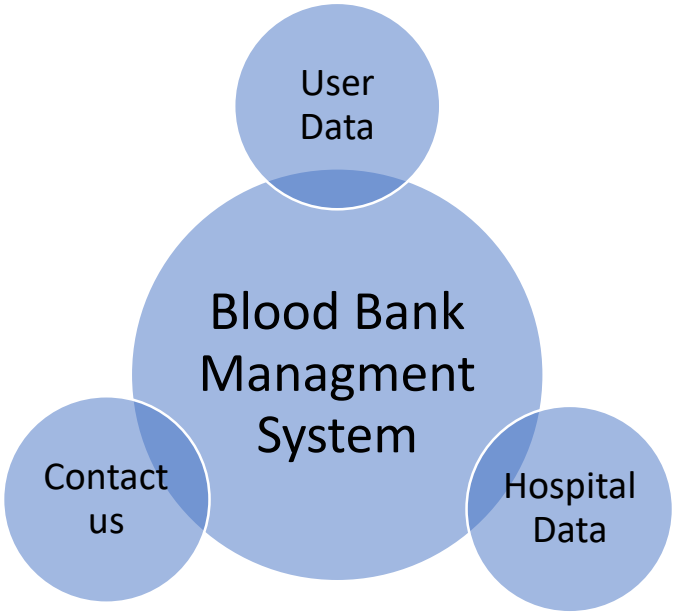
2. Very difficult to manage changes blw the phases there are possibility of blocking which can slow down the Productivity and efficiency of the process.

3. Risk is not addressed in this model.

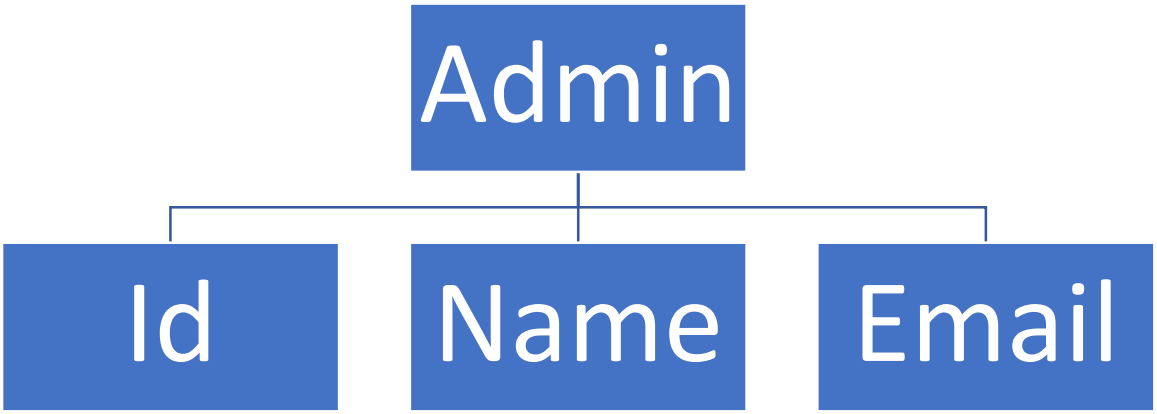
4 System Design

4.1 Data Flow Diagram

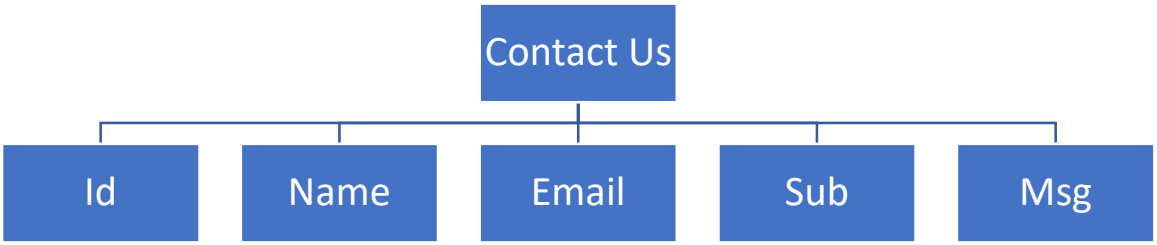
(i) 0 Level



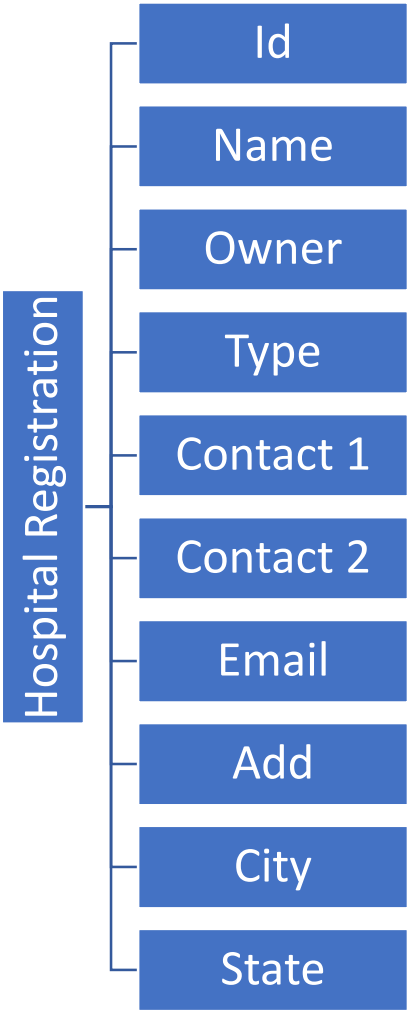
4.1.1 Admin Dfd



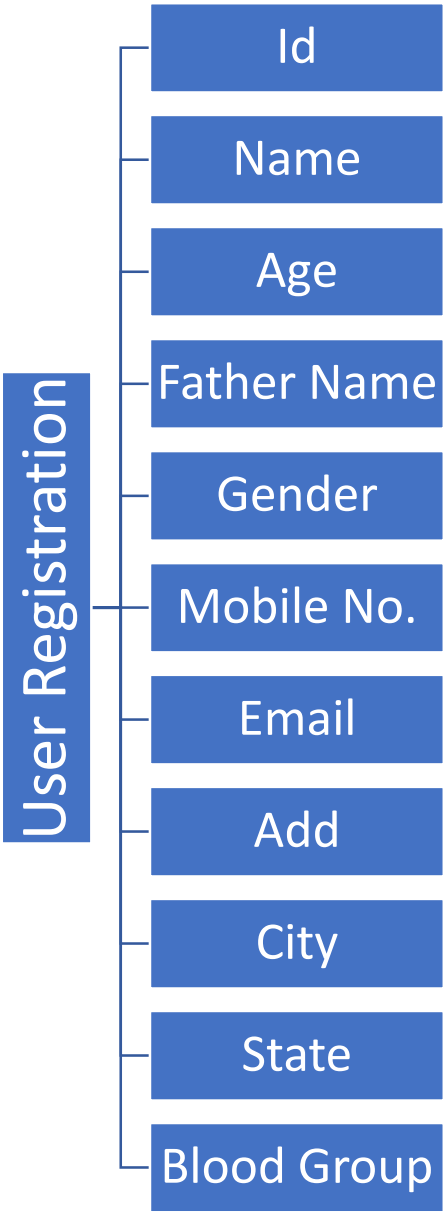
4.1.2 Contact Us Dfd



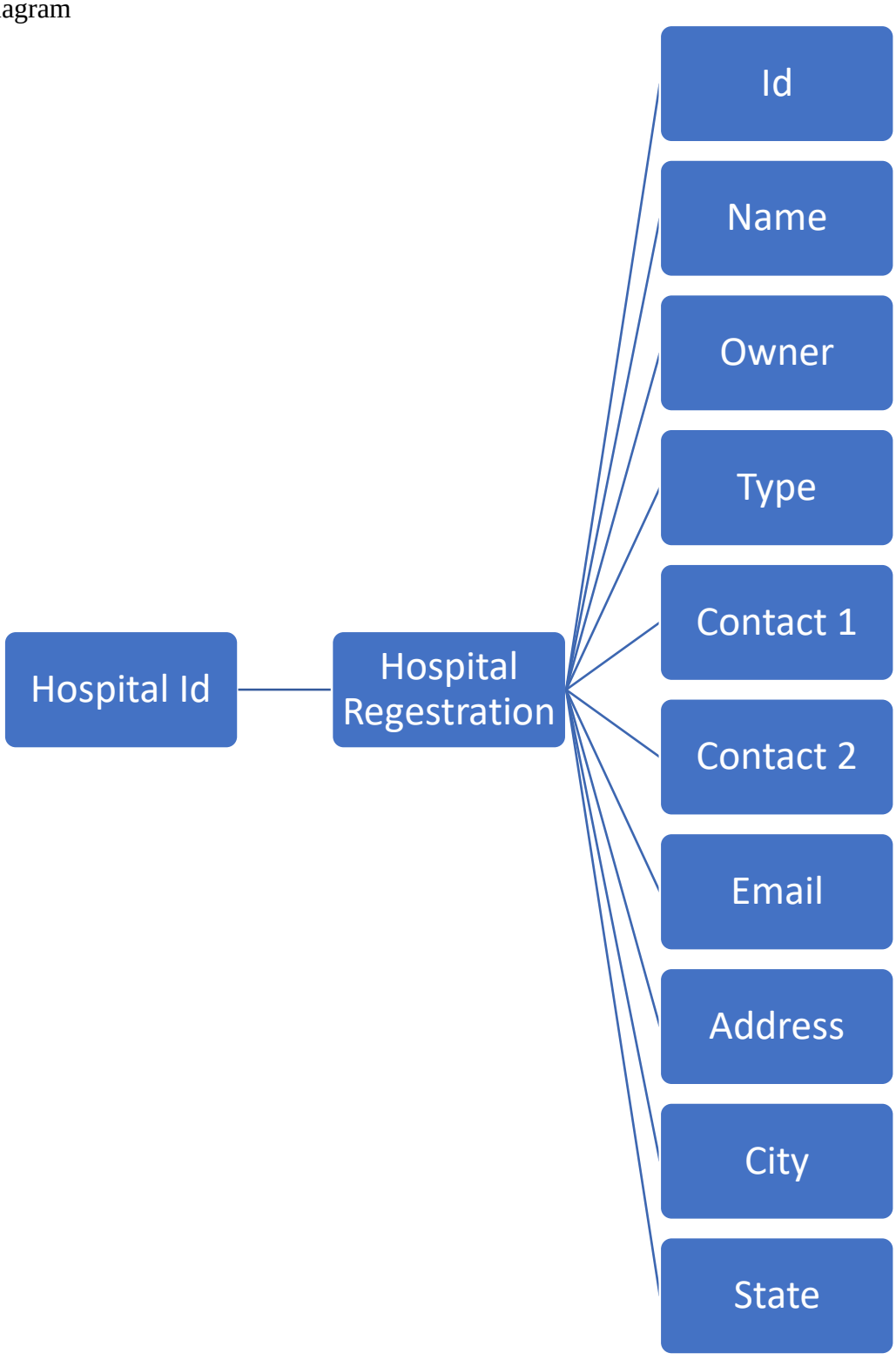
4.1.3 Hospital Dfd

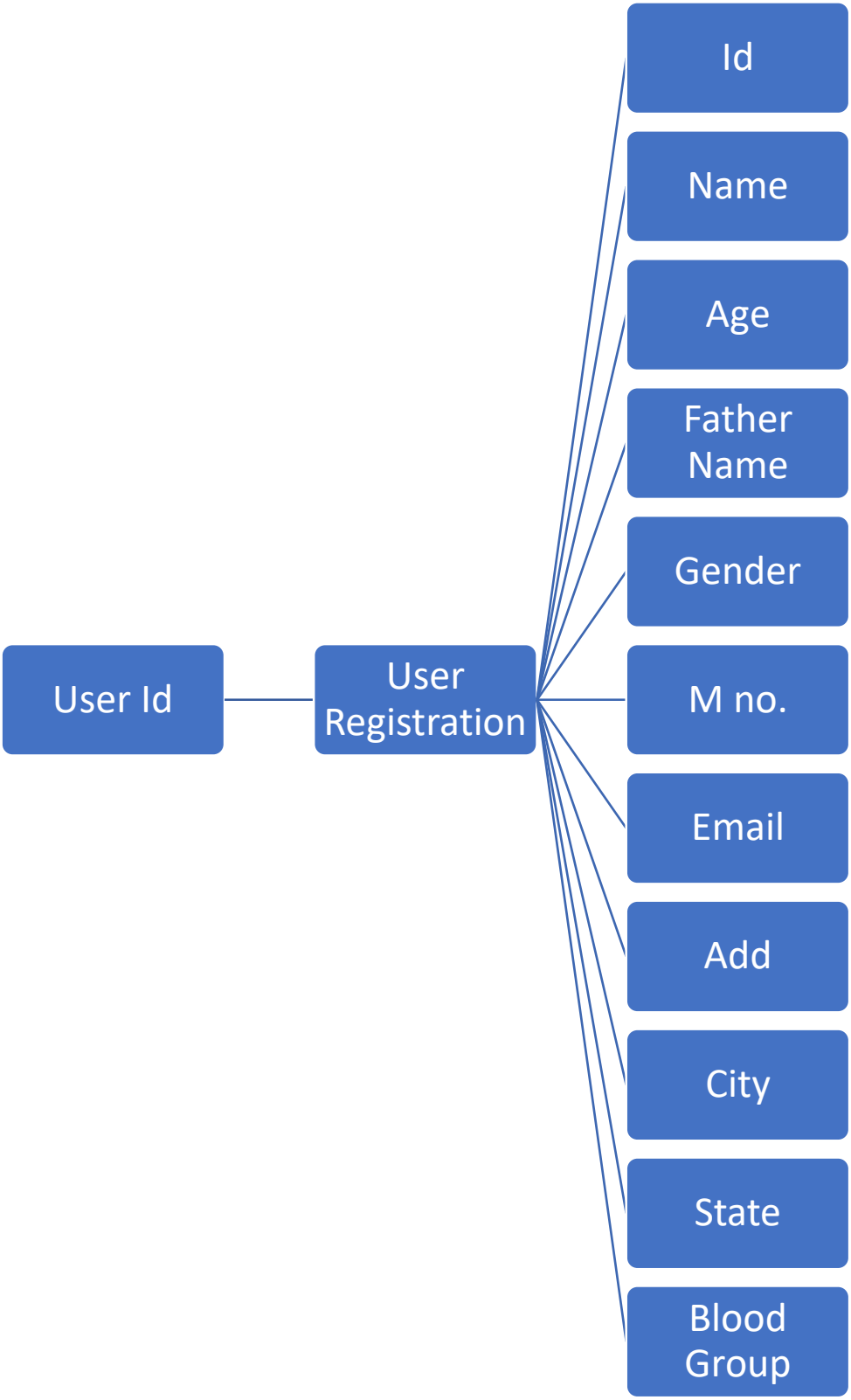


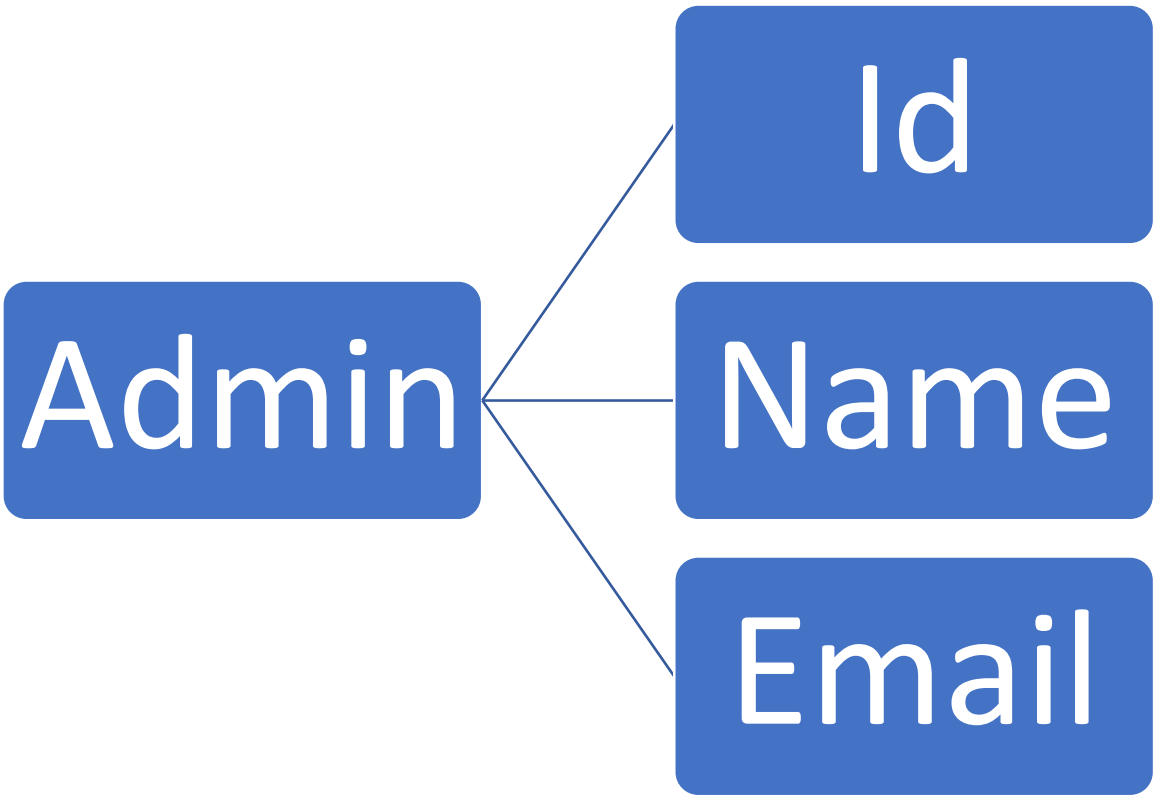
4.1.4 User Dfd


User Registration
Id
Name
Age
Father Name
Gender
Mobile No.
Email
Add
City
State
Blood Group

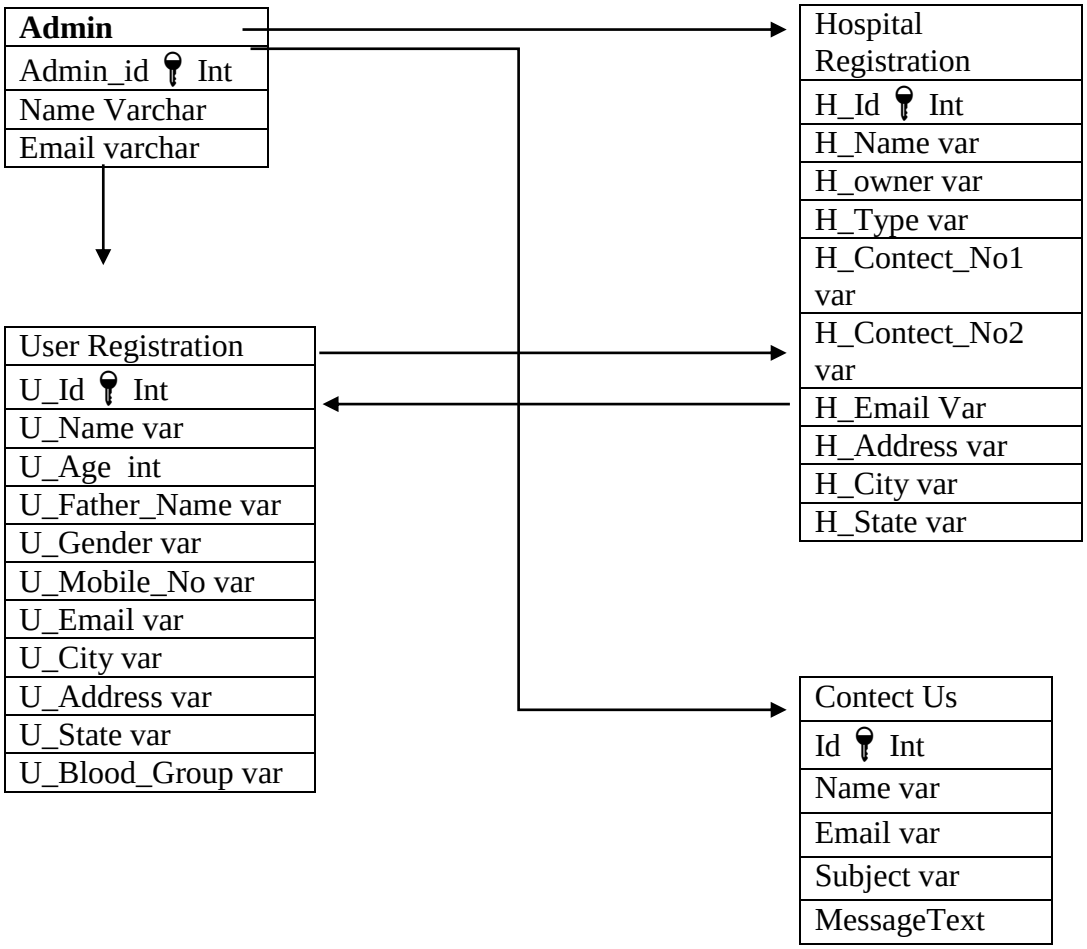
4.2 E R Diagram



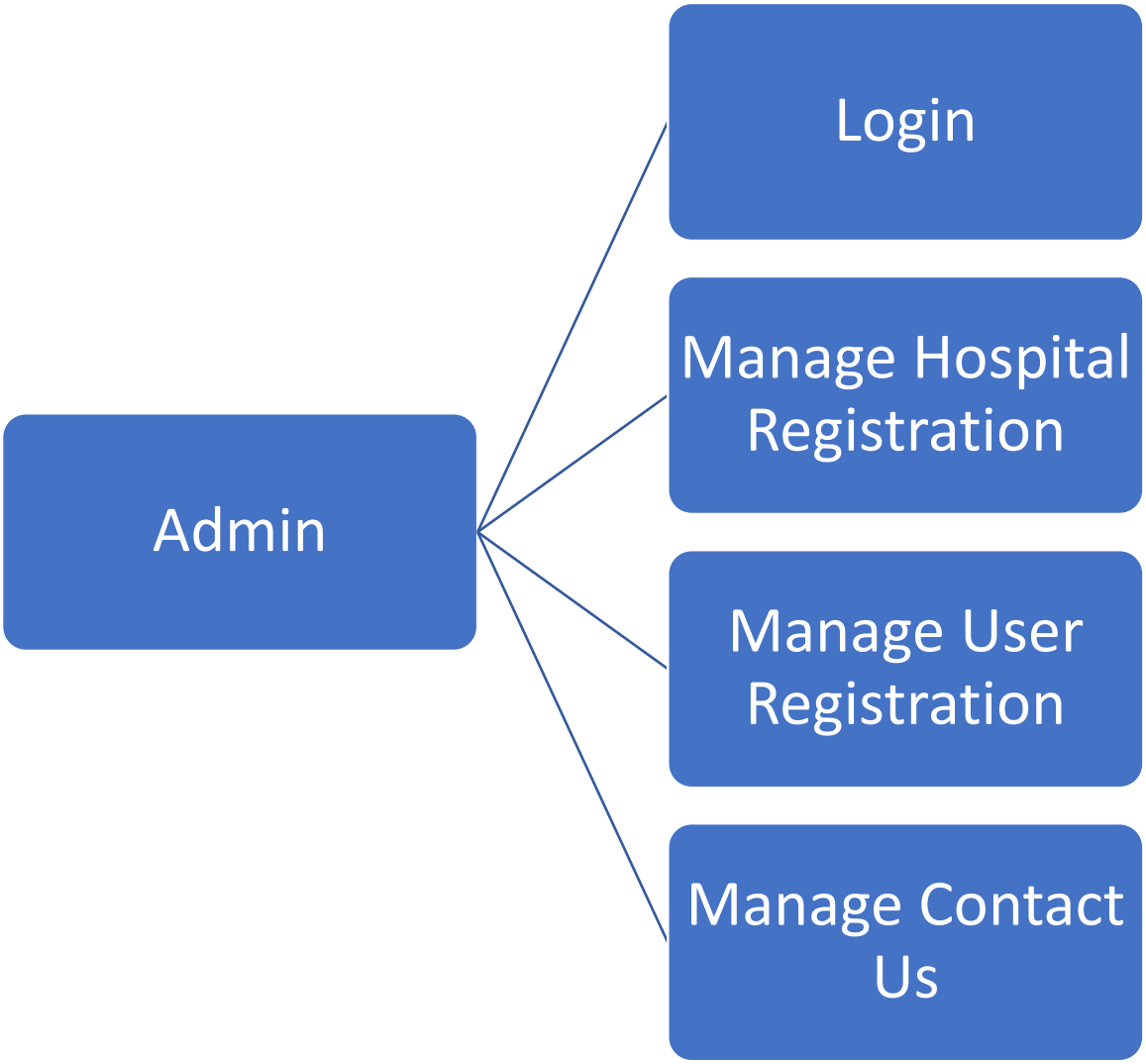

User Id
User Registration
Id
Name
Age
Father Name
Gender
M no.
Email
Add
City
State
Blood Group


Admin
Id
Name
Email

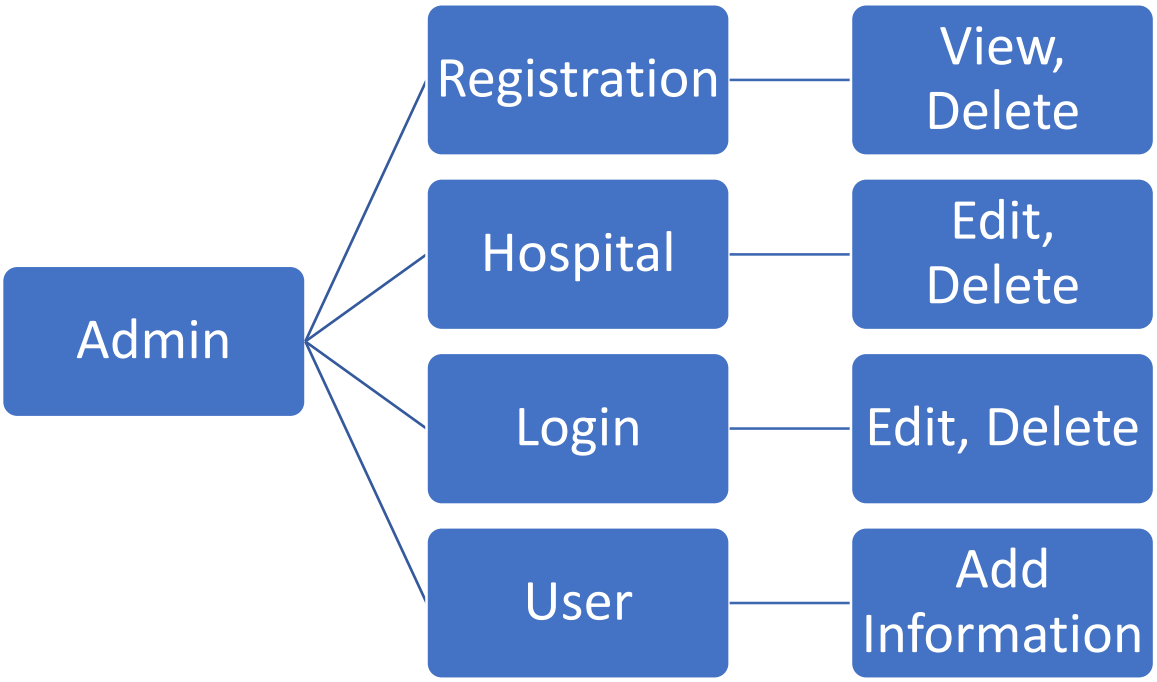
4.3 Class Diagram



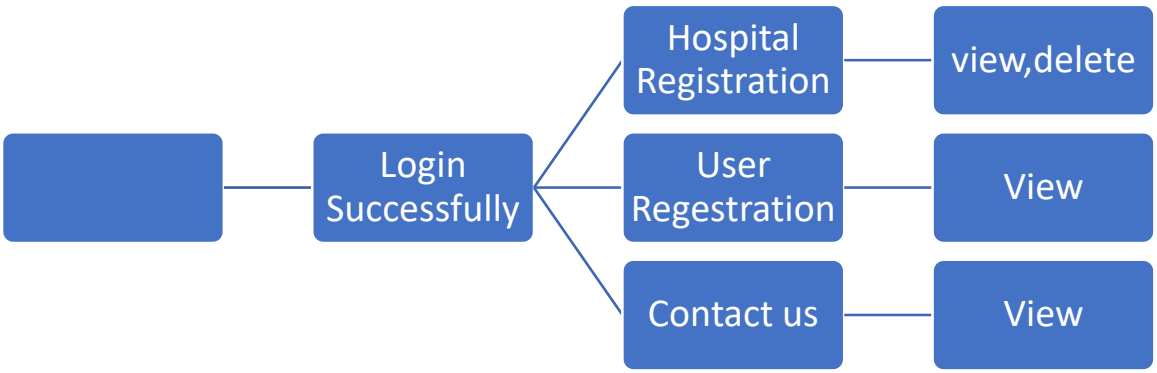
4.4 Use Case Diagram



4.5 Sequence Diagram



4.6 Activity Diagram


Login Successfully
Hospital Registration
User Regestration
Contact us
view,delete
View
View

4.7 Data Dictionary
-> A Data Dictionary define the structure of the database.
->It self and it used in control and maintains of database.

Admin

Name	**Type**
Admin_Id	Int (10)
Name	Varchar
Email	Varchar

Hospital Registration

Name	**Type**
H_Id 🔑	Int(10)
H_Name	Varchar(50)
H_owner	Varchar(50)
H_Type	Varchar(50)
H_Contect_No1	Varchar(50)
H_Contect_No2	Varchar(50)
H_Email	Varchar(50)
H_Address	Varchar(50)
H_City	Varchar(50)
H_State	H_owner

User Registration

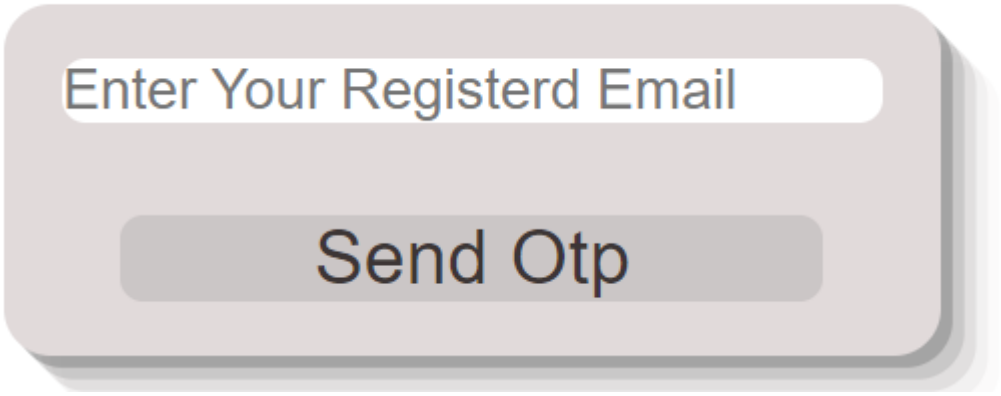
Name	**Type**
U_Id 🔑	Int(10)
U_Name	Varchar(50)
U_Age	Int(3)
U_Father_Name	Varchar(50)
U_Gender	Varchar(50)
U_Mobile_No	Varchar(50)
U_Email	Varchar(50)
U_City	Varchar(50)
U_Address	Varchar(50)
U_State	Varchar(50)
U_Blood_Group	Varchar(50)

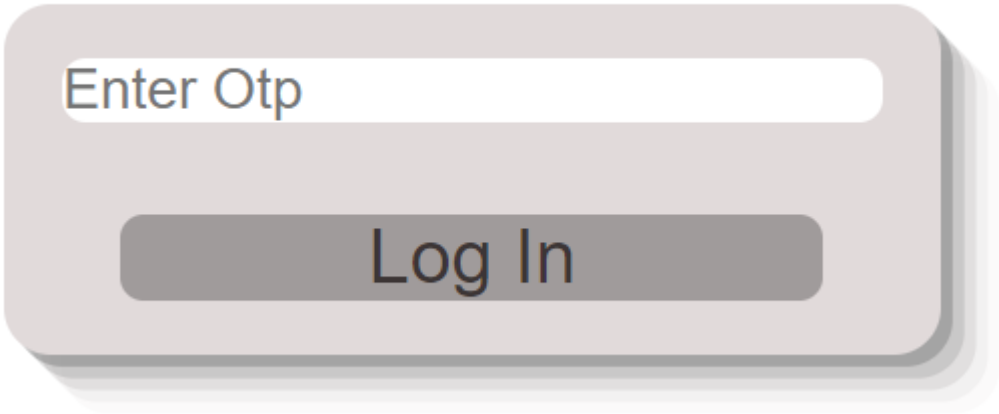
Contect Us

Name	**Type**
Id 🔑	Int(10)
Name	Varchar(50)
Email	Varchar(50)
Subject	Varchar(50)
Message	Text

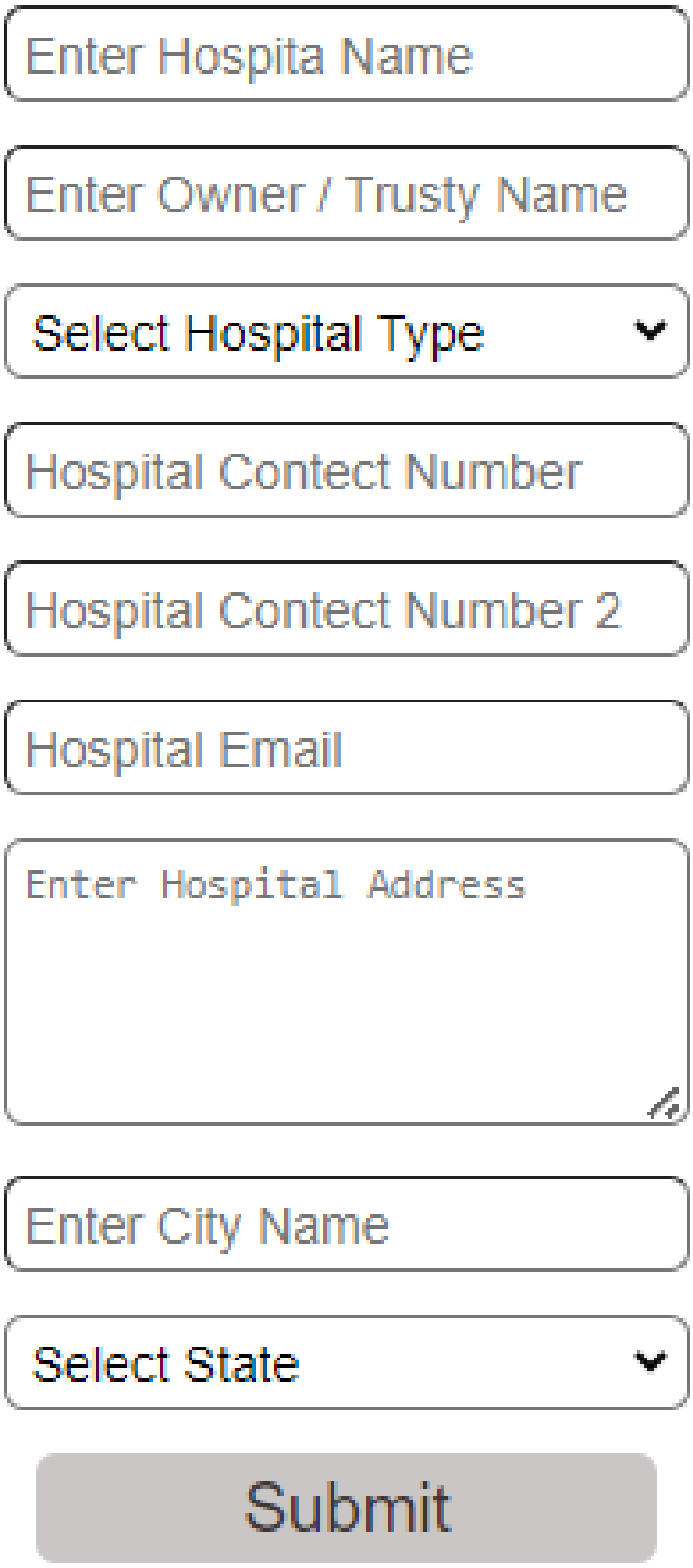
5 Screen Design

Log in-

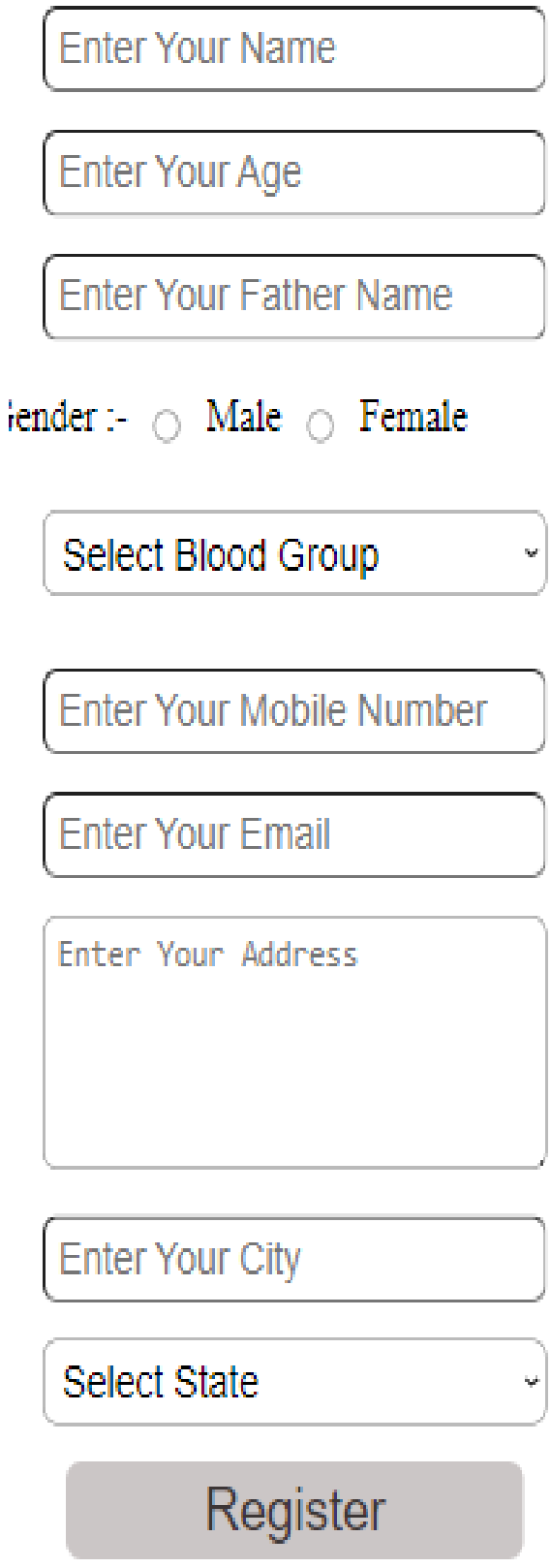




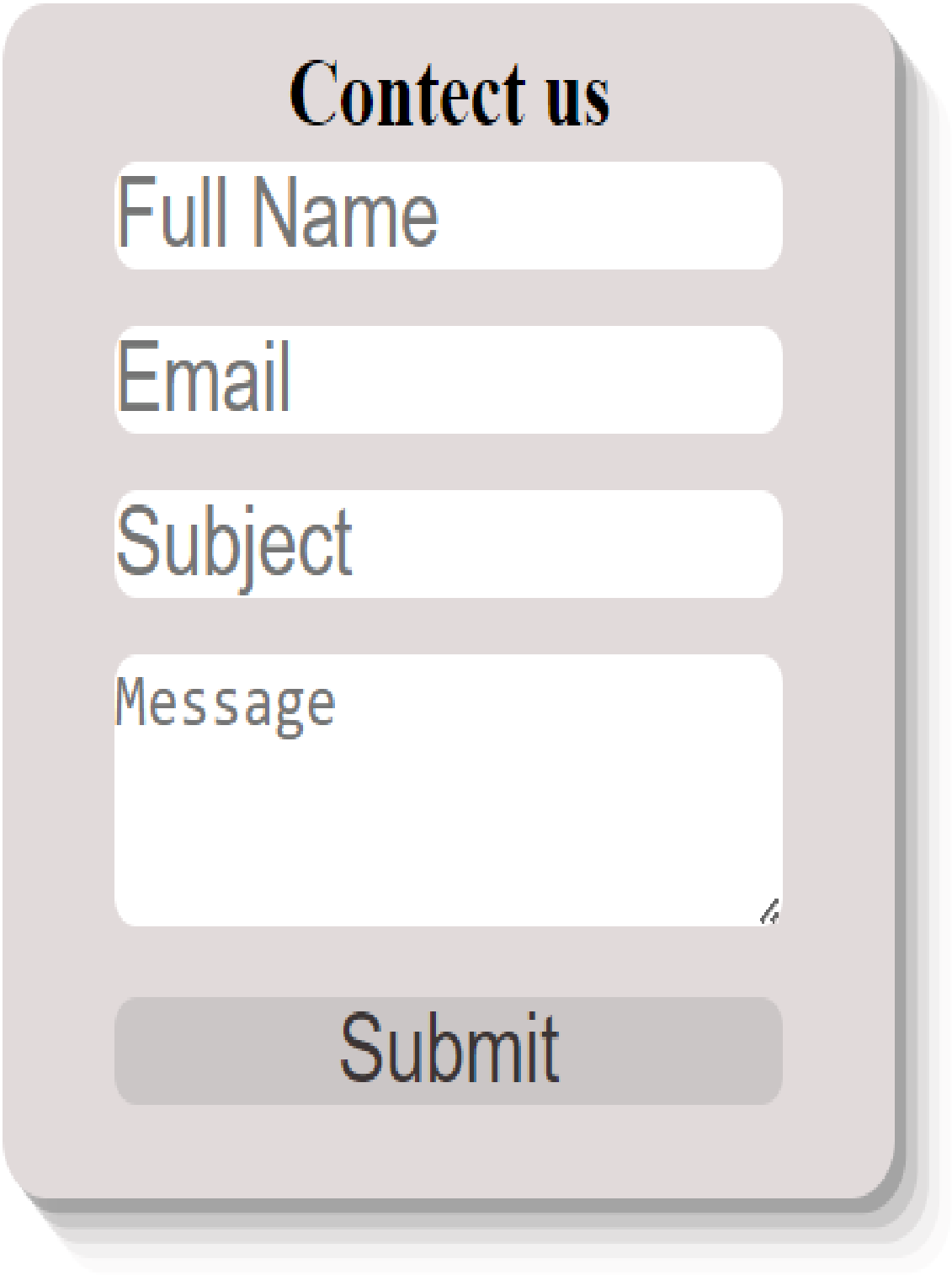
Hospital Registration Fprm :-



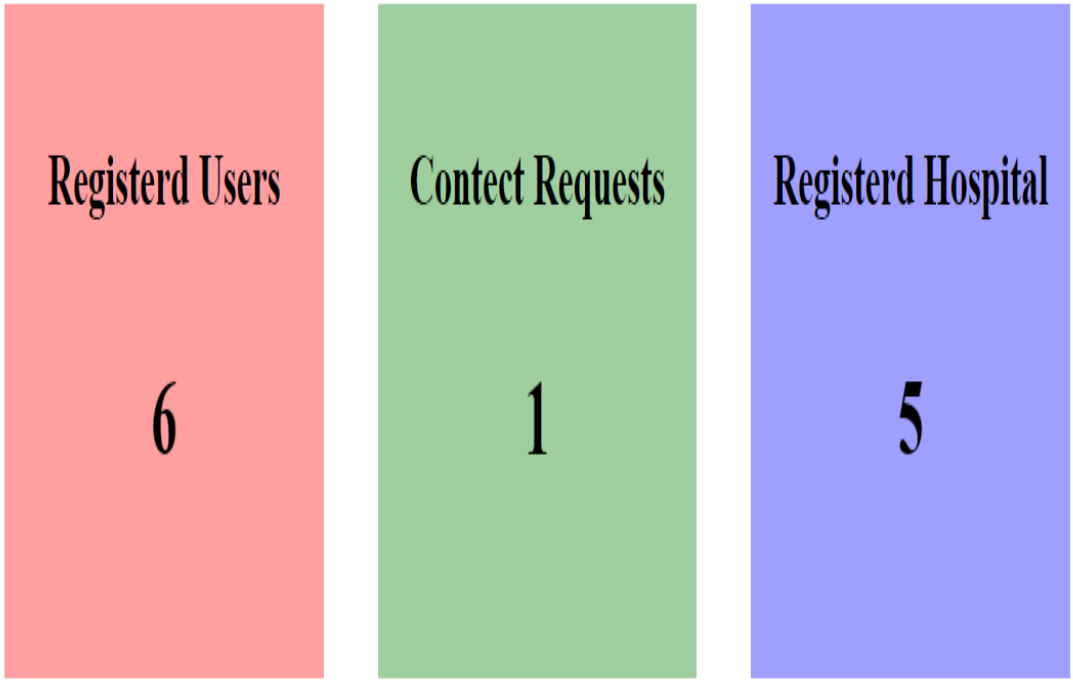
User Registration Form


Enter Your Name
Enter Your Age
Enter Your Father Name
ender :- Male Female
Select Blood Group
Enter Your Mobile Number
Enter Your Email
Enter Your Address
Enter Your City
Select State
Register

Contect Us



Admin Ui



6 Coding

Login

```
        <!DOCTYPE html>
<html lang="en">

<head>
   <link rel="stylesheet" href="css/main.css">
   <link rel="stylesheet" href="css/util.css">
   <link rel="stylesheet" href="css/login.css">
</head>

<?php
   include 'CRUD_Operation/sendMail.php';
   // session_start();

   if (isset($_POST['BtnSendOtp'])) {
      $mailId = $_POST['LoginEmail'];
      $mailSend->sendIt($mailId);
   }
?>

<body>
   <?php include 'header.php' ?>

   <form action="<?php echo htmlspecialchars($_SERVER["PHP_SELF"]); ?>"
method="post">
      <div class="container" id="container">
         <input type="email" name="LoginEmail" required placeholder="Enter Your
Registerd Email ">
         <br>
         <input type="submit" name="BtnSendOtp" id="otpButton" value="Send Otp">
      </div>
   </form>

   <?php include 'footer.php' ?>
</body>
</html>
```

```
Contact Us
        <?php include("header.php") ?>
<!DOCTYPE html>
<html lang="en">

<head>
   <link rel="stylesheet" href="css/main.css">
   <link rel="stylesheet" href="css/util.css">
   <link rel="stylesheet" href="css/contectus.css">
</head>

<?php
include "CRUD_Operation/connection.php";

   if (isset($_POST["Submit"])) {

      $name=$_POST["FullName"];
      $email=$_POST["Email"];
      $subject=$_POST["Subject"];
      $message=$_POST["message"];

      $insertSql = $conn->prepare("INSERT INTO `contectrequest`(`Name`, `Email`,
`Subject`, `Message`) VALUES (?,?,?,?)");
      $insertSql->bind_param("ssss",$name,$email,$subject,$message);
      $insertSql->execute();

      echo "
         <script>
            alert('Thanks For Contact Us');
         </script>
      ";
   }
?>

<body>
   <div class="container">
      <div class="contectForm">
         <form action="<?php echo htmlspecialchars($_SERVER["PHP_SELF"]); ?>"
method="post">
            <h1>Contect us</h1>
            <input type="text" name="FullName" placeholder="Full Name">
            <br><br>
            <input type="email" name="Email" placeholder="Email">
            <br><br>
            <input type="text" name="Subject" placeholder="Subject">
            <br><br>
            <textarea name="message" rows="3" placeholder="Message"></textarea>
            <br><br>
```

```
            <input type="submit" id="btn_submit" name="Submit" value="Submit">

          </form>
       </div>
       <img src="img/contectFormImage.jpg" id="img1" >
    </div>
</body>

</html>
<?php include("footer.php") ?>
```

Mail Check Function:-

```
<?php

class checkEmail
{
   public function check($mailid)
   {
      session_start();

      $host = "localhost";
      $user = "root";
      $pass = "";
      $dbName = "bloodbank";
      $conn = mysqli_connect($host, $user, $pass, $dbName);

      $SelectSql = $conn->prepare("SELECT * FROM `hospitalregistration` WHERE
`Hospital_Email` = ?");
      $SelectSql->bind_param("s", $mailid);
      $SelectSql->execute();
      $res = $SelectSql->get_result();

      $SelectSql2 = $conn->prepare("SELECT * FROM `userregistration` WHERE
`User_Email` = ?");
      $SelectSql2->bind_param("s", $mailid);
      $SelectSql2->execute();
      $res2 = $SelectSql2->get_result();

      // $SelectSql3 = $conn->prepare("SELECT * FROM `admin`  WHERE `Email` = ?");

      $SelectSql3 = $conn->prepare("SELECT * FROM `admin`  WHERE `Email` = ?");
      $SelectSql3->bind_param("s", $mailid);
      $SelectSql3->execute();
      $res3 = $SelectSql3->get_result();


      if ($res->num_rows == 0  && $res2->num_rows == 0 && $res3->num_rows == 0) {
         return 1;
      } else {
         if($res->num_rows == 1){
```

```
            $_SESSION['UserType'] = "Hospital";
            $x = $res->fetch_row();
            $uname= $x[1] ;
            $_SESSION['UserName'] = $uname;
        }elseif ($res2->num_rows == 1) {
            $_SESSION['UserType'] = "Doner";
            $x = $res2->fetch_row();
            $uname= $x[1] ;
            $_SESSION['UserName'] = $uname;
        }elseif ($res3->num_rows == 1) {
            $_SESSION['UserType'] = "Admin";
            $x = $res3->fetch_row();
            $uname= $x[1] ;
            $_SESSION['UserName'] = $uname;
        }

        return 0;
    }
  }
}

$varify = new checkEmail;

  // echo $varify->check('xydz@gmail.com');

?>
```

Mail Send Function :-

```
<?php

class sendMail
{
  public function sendIt($email)
  {
    include 'CRUD_Operation/checkEmail.php';

    $tomail = $email;
    $sub = "Varification Otp";
    $otp = random_int(0, 9) . random_int(0, 9) . random_int(0, 9) . random_int(0, 9);
    $body = "This Is Otp To Varify Your Email And Login $otp ";
    $header = "From: rupareliyamonik3@gmail.com";

    if ($varify->check($email) == 0) {

      if (mail($tomail, $sub, $body, $header)) {
        $_SESSION["email"] = $email;
        $_SESSION['Otp'] = $otp;
        echo "
```

```
                <script>
                alert('Otp send ');
                location.href='otpVarify.php';
                </script>
            ";
        } else {
            echo "
                <script>
                alert('Otp Is Not Sended Server Problem !!! ');
                location.href='login.php';
                </script>
        ";
        }
    } else {
        echo "
                <script>
                alert('$email Is Not Exist Please Register Email First');
                location.href='login.php';
                </script>
        ";
    }
  }
}
$mailSend = new sendMail();
```

Admin Page : -

```
<!DOCTYPE html>
<html lang="en">

<head>
  <link rel="stylesheet" href="../css/main.css">
  <link rel="stylesheet" href="../css/util.css">
  <link rel="stylesheet" href="../css/header.css">
  <link rel="stylesheet" href="../css/footer.css">
  <link rel="stylesheet" href="css/admin.css">

</head>

<body>
  <?php include "../header.php";
  error_reporting(0); ?>
  <?php include "../CRUD_Operation/connection.php" ?>
  <div class="container">
    <div class="sub-container-1">
    <h1>Registerd Users </h1>
      <?php
      $qry = 'SELECT `User_Id` FROM `userregistration` ';
      $res = mysqli_query($conn, $qry);
      $Count_User = 0;
```

```
        while ($row = mysqli_fetch_assoc($res)) {
            $Count_User += 1;
        }
        echo "
              <a href='registerUserData.php'> <h1>  $Count_User </h1> </a>
            ";

        ?>
      </div>
      <div class="sub-container-2">
      <h1> Contect Requests  </h1>
      <?php
        $qry = 'SELECT `id` FROM `contectrequest`  ';
        $res = mysqli_query($conn, $qry);
        $Count_User = 0;
        while ($row = mysqli_fetch_assoc($res)) {
            $Count_User += 1;
        }

        echo "
        <a href='contectUsRequestData.php'> <h1>  $Count_User </h1> </a>
            ";

        ?>
      </div>
      <div class="sub-container-3">
      <h1>Registerd Hospital  </h1>
        <?php
        $qry = 'SELECT `Hosptal_Id` FROM `hospitalregistration`  ';
        $res = mysqli_query($conn, $qry);
        $Count_User = 0;
        while ($row = mysqli_fetch_assoc($res)) {
            $Count_User += 1;
        }

        echo "
        <a href='registeredHospitalsData.php'> <h1>  $Count_User </h1> </a> ";

        ?>
      </div>
    </div>

    <?php include "../footer.php"; ?>
</body>

</html>
```

Nav Bar :-

```
<!DOCTYPE html>
<html lang="en">

<head>
   <link rel="stylesheet" href="css/header.css">
   <link rel="stylesheet" href="css/main.css">
</head>

<body>

   <?php
   error_reporting(0);
   session_start();
   if (($_SESSION['UserType'] == 'Hospital' or $_SESSION['UserType'] == 'Doner' ) and
$_SESSION['LOgin_or_Not']) {
      echo '
         <nav>
            <div class="menu">
               <div class="logo">
                  <img src="img/heart1.png">
               </div>
               <div class="menuItem"><a href="/project"> Home </a></div>
               <div class="menuItem"><a href="aboutUs.php"> About Us </a></div>
               <div class="menuItem"><a href="contectUs.php"> Contect us </a></div>
               <div class="menuItem"><a href="logout.php"> Log Out </a></div>
               <div class="menuItem"> ' . $_SESSION["UserName"] . ' </div>
            </div>
            </nav>
      ';
   } else if( $_SESSION['UserType'] == 'Admin' and $_SESSION['LOgin_or_Not']){
      echo '
         <nav>
            <div class="menu">
               <div class="logo">
                  <img src="img/heart1.png">
               </div>

               <div class="menuItem"><a href="../logout.php"> Log Out </a></div>
               <div class="menuItem"> <a href="admin.php">' . $_SESSION["UserName"] . '
</a> </div>
            </div>
            </nav>
      ';
   }
   else {
      echo '
         <nav>
            <div class="menu">
```

```
                <div class="logo">
                    <img src="img/heart1.png">
                </div>
                <div class="menuItem"><a href="/project"> Home </a></div>
                <div class="menuItem"><a href="aboutUs.php"> About Us </a></div>
                <div class="menuItem"><a href="contectUs.php"> Contect us </a></div>
                <div class="menuItem"><a> Register </a>
                    <div class="subMenu">
                        <div class="subMenuItem"> <a href="donerRegistrationForm.php">
Register Doner/Reciver </a> </div>
                        <div class="subMenuItem"> <a href="hospitalRegistrationForm.php">
Register Hospital </a> </div>
                    </div>
                </div>
                <div class="menuItem"><a href="login.php"> Log In </a></div>
            </div>
            </nav>
        ';
    }
    ?>
</body>

</html>
```

Otp Verification : -

```
<!DOCTYPE html>
<html lang="en">

<head>
    <link rel="stylesheet" href="css/main.css">
    <link rel="stylesheet" href="css/util.css">
    <link rel="stylesheet" href="css/login.css">
</head>

<?php
include 'CRUD_Operation/sendMail.php';
session_start();
error_reporting(0);

if (isset($_POST['LogIn'])) {
    $varifyOtp = $_POST['varifyOtp'];

    if ($_SESSION['Otp'] === $varifyOtp) {
        $_SESSION["LOgin_or_Not"]=1;

        if( $_SESSION['UserType'] == 'Admin'){
            echo "
                <script>
                    alert('Log In Done');
                    location.href='admin/admin.php';
```

```
            </script>
        ";
    }else {
        echo "
        <script>
            alert('Log In Done');
            location.href='index.php';
        </script>
    ";
    }

  } else {
    echo "
        <script>
            alert('Otp Not Curect We Sending Again ');
        </script>
    ";
    $mailId = $_SESSION['email'];
    $mailSend->sendIt($mailId);
  }
}

?>

<body>
  <?php include 'header.php' ?>

  <form action="<?php echo htmlspecialchars($_SERVER["PHP_SELF"]); ?>"
method="post">
    <div class="container" id="container2">
        <input type="text" name="varifyOtp" required placeholder="Enter Otp ">
        <br>
        <input type="submit" name="LogIn" id="otpButton" value="Log In">
    </div>
  </form>

  <?php include 'footer.php' ?>
</body>

</html>
```

7 Testing

->Some of the basic testing Principles:-

-All tests should be truceable to customer requirements

-Tests should be planned long before teste begins.

-Testing should begin " in the Small" and progress toward testing "in the large".

-Exhaustive testing is not Possible.

7.1

→ (a) White Box Testing :-

white Box testing, Some -times called glass-box testing, is a test case design method that uses the Control Structure of the procedural design to derive test Cases Using white-box testing methods, the Software engineer cun derive test cases that.

Guartee that all Independent Paths within a module have been exercised at least once..

Exercise an logical decisions on their true and False Sides.

Execute all loops of their boundaries and within their operational bounds

Exercise Internal data Structures to ensure their validation .

(b) Black Box Testing -

Black-box testing, also called behavioral testing, Focuses on the Functional requirements of the Software.

-> That is, black-box testing enables the Software engineer to derive sets of Input Godit- - Hon that will fully exercise all Functional requirement for a program. Black-Box testing is an alternative to white-box techniques.

-> Black-box testing attempts to find errors in the following Categories

Incorrect or missing functions.

Interface errors.

Errors in data Structures or external data base access.

Behavior or Performance errors.

7.2

Test Case

The design of tests for engineered Products Can be as challenging as the internal design of the product its self.

→ A rich variety of rest case design method have evolved for Software. These methods Provides The developer with a systematic approach to testing

-> More important, method provide a mechanism that can help to ensure the Completeness of tests and provide the highest likelihood For uncovering errors in Software.

->Any Product can be testing in one of two way:

Knowing the Specified Function that a product has been designed to perform, tests can be Conducted that demonstrate each Function is fully operational while it the same time searching for error in each function (Black-Box testing).

Knowing the internal workings of a product, tests can be conducted ensure" all gens mesh", that is, internal operations are Parfum according to specifications and all internal Components have been adequately exercised. (white-Box Testing).

8 Enhancements

Advantages of your Project

8.1

- >Easy Trucking :-
It helps keep track of the blood Trucking we have. making sure we always have the right types of blood when. Someone needs it.

->Fuster Help:-
It helps us get blood to People who need it quickly, especially in emergencies.

->Donor Help-
It makes it easier for People who want to donate blood, and we can. keep in touch with them..

-> Less mistakes:-
It reduces the chances of making mistakes when matching blood, which is important For Patient Safety.

→Saving Money-

It helps us use or resources wisely, which matching means we spend less money on managing the blood bunk.

->Learning and Planning-
we can learn From our data cand make better plans to make sure we always have enough blood.

-> Emergency Help-
It's really useful in emergencies and disasters to provide bined quekly.

-> Cost Efficiency-
Optimizes resources allocation reducing operation costs in managing blood bank facilities.

8.2 Limitation or your Project:

-> Technology Dependence-
It relies on Computer and Software. If they break or have problems. to can slows down the blood bank..

-> Data Accuracy
If incorrect is entered, it can lead to mistakes in managing blood, which is risky.

->Training Needed:-
People who use the system. need training. If they don't know how to use it properly. It can cause Problems.

> Not Always Available:-
In Some places, there might not be access to the technology needed For this System.

-> Privacy Concerns:-
keeping patient and donor Information private und Sure is crucial, and this system needs Strong Security to do that.

8.3 Future Scope:

we expect to extend and cold Some of the features to this system in near Future

->These features are.

To make System more users friendly.

Configuration Features cam be changed according to user's Requirement.

Doner hath Report and genral profile.

To Provide more security to profile data.

9 References

Google
youtube

→ **websites:-**

https: // www.eruktkash.in https://www.w3school.com