

BLOODBANK MANAGEMENT SYSTEM

PROJECT REPORT

Submitted in fulfilment for the J-Component of ITE1008 – Open Source Programming

CAL COURSE

In

B.Tech. (Information Technology)

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SITE



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Vellore Institute of Technology
(Deemed to be University under section 3 of UGC Act, 1956)

School of Information Technology and Engineering

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ABSTRACT :

- The main aim to help needy people in case of emergencies.
- Blood donor play very important role in the healthcare of patients in our community.
- Most population are eligible to donate blood yet very few actually do.
- Every year, a huge number of individuals depend on accepting and giving blood to remain alive.
- So, we have created a platform for blood donors where they can fill their details and our team will reach their locations for safe blood transfusion.
- Blood bank may be one of the absolute best instances of unselfishness in real life for fulfilling the Need of blood to people.

INTRODUCTION

->The project BLOODBANK SYSTEM is a project that is designed for a blood bank to gather blood from various sources and distribute it to the needy people who have high requirements for it.

->The software is designed to handle daily transactions of blood bank and search the details when required.

->It also helps to register the details of donor, blood collection details as well as blood issued reports.

->The software application is designed in such a manner that it can the needs of all blood bank requirements in the course of future.

GOALS AND OBJECTIVES

The goals and objectives of the Blood Bank Management System are as follows:

- To provide a means for the blood bank to publicize and advertise blood donation programs.
- To allow the probable recipients to make search and match the volunteer donors, and make request for the blood.
- To provide an efficient donor and blood stock management functions to the blood bank by recording the donor and blood details.
- To improve the efficiency of blood stock management by alerting the blood bank staffs when the blood quantity is below its par level or when the blood stock has expired.
- To provide synchronized and centralized donor and blood stock database.
- To provide immediate storage and retrieval of data and information.

EXISTING SYSTEM

- ✚ Time consuming
- ✚ Leads to error prone results
- ✚ Consumes lot of manpower
- ✚ Lacking of donor information
- ✚ Uncertainty of Donor availability
- ✚ Retrieval of data takes lot of time
- ✚ Percentage of accuracy is less

PROPOSED SYSTEM

- ✓ Access from anywhere of world
- ✓ Access at any time
- ✓ Quick Search
- ✓ Better Communication
- ✓ Optimize to volunteer
- ✓ Time Optimize
- ✓ Cost Optimize

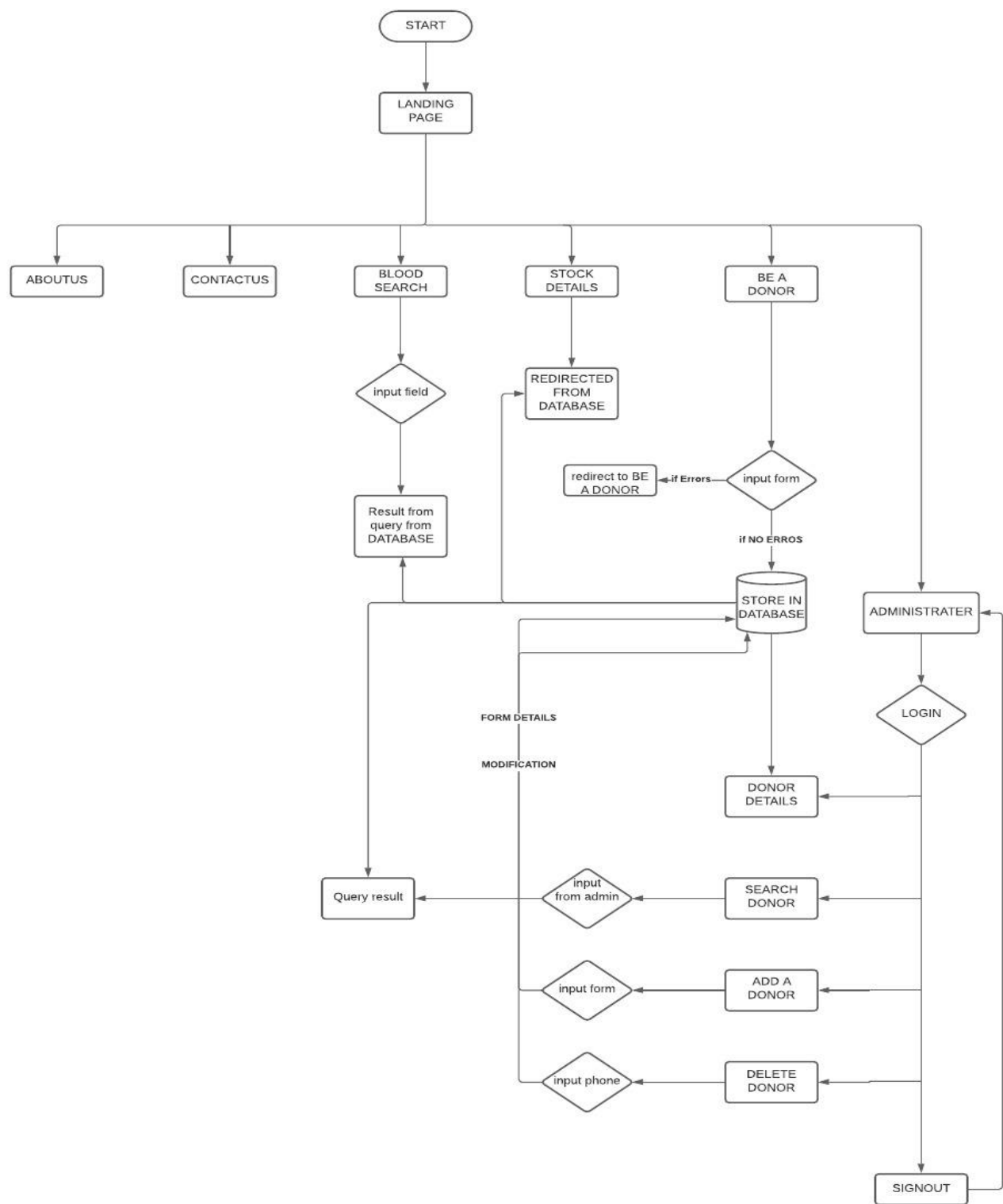
ADVANTAGE

- Access from anywhere of world
- Access at any time
- Quick Search
- Better Communication
- Optimize to volunteer
- Time Optimize
- Cost Optimize

DISADVANTAGE

- At present it is available for some limited zone.
- Problem to calculate number of donor available in list.
- Difficulty in identifying blood donor's expiry date.
- In future we must overcome this drawback by using modern technologies

PROCESS FLOW DIAGRAM



MODULES

- Blood Bank (HOME)
- About us
- Contact us
- Blood Search
- Stock Details
- Be a donor
- Administrator login

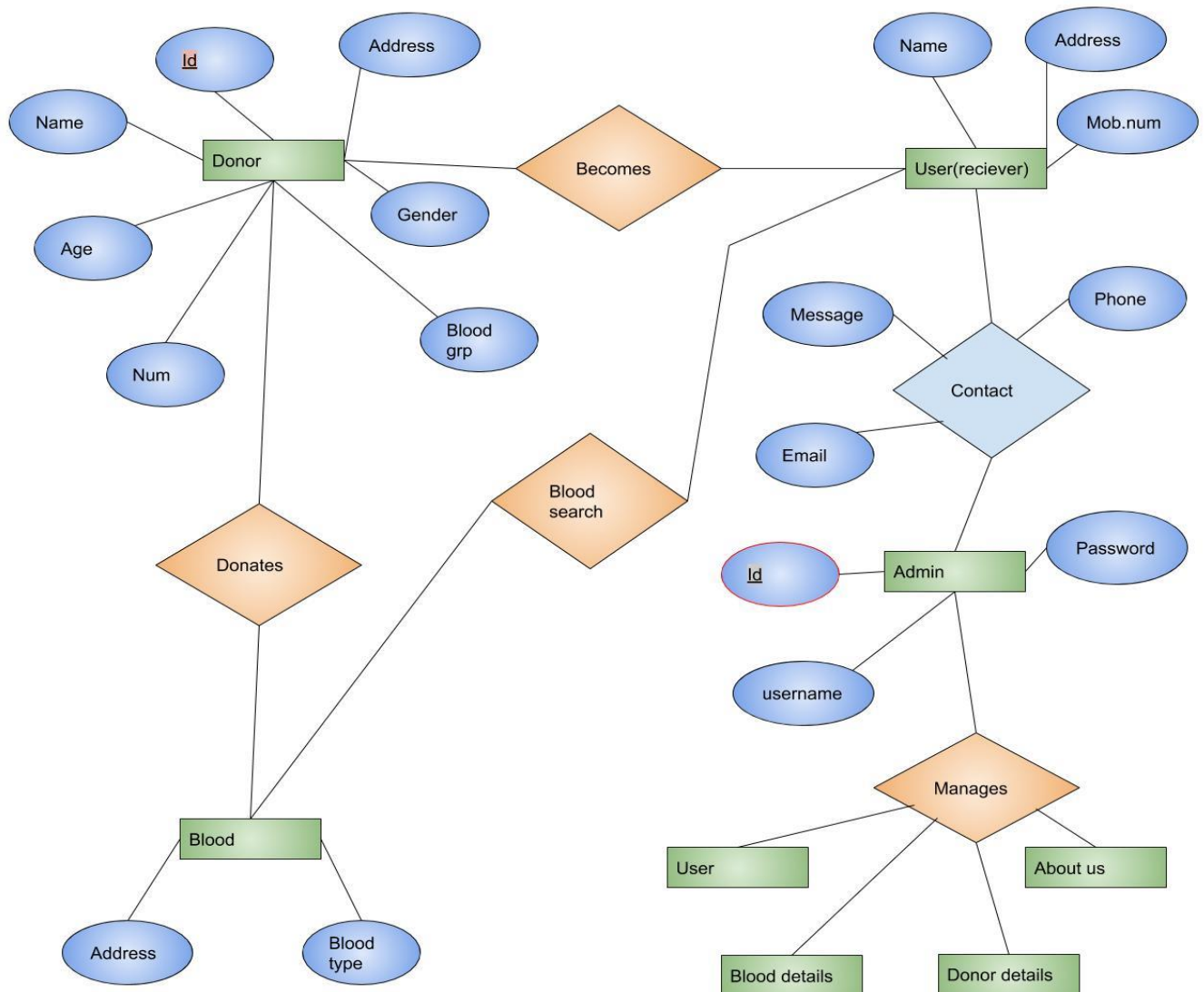
TECHNOLOGIES:

- HTML
- CSS
- BOOTSTRAP
- JAVASCRIPT
- JQUERY
- ANGULARJS
- ICONS AND FONTS (font awesome.com)
- PHP AND MySQL

TOOLS:

- VS code
- XAMPP
- BROWSERSYNC

E.R DIAGRAM



E.R Diagram of project.

Donor entity have name, age, blood group, mobile no, address, gender and id attributes which have relation with donates blood and blood type where blood entity has relation with search blood which has relation with user/receiver and user have relation with contact entity which can be managed by the admin panel for that you required 'username' and 'password' which manages 'User', 'Blood details', 'Donor Details' and 'About us' page

DATABASE DESIGN:

i)table

The screenshot shows the phpMyAdmin interface for a database named 'ospwork'. The 'blooddonar' table structure is displayed. The table has 8 columns: name, age, email, phone, address, message, gender, and bloodtype. The 'name' column is the primary key.

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	name	varchar(45)	utf8mb4_general_ci		Yes	NULL			Change Drop More
2	age	varchar(3)	utf8mb4_general_ci		Yes	NULL			Change Drop More
3	email	varchar(50)	utf8mb4_general_ci		Yes	NULL			Change Drop More
4	phone	varchar(10)	utf8mb4_general_ci		No	None			Change Drop More
5	address	varchar(100)	utf8mb4_general_ci		Yes	NULL			Change Drop More
6	message	varchar(150)	utf8mb4_general_ci		Yes	NULL			Change Drop More
7	gender	varchar(10)	utf8mb4_general_ci		Yes	NULL			Change Drop More
8	bloodtype	varchar(5)	utf8mb4_general_ci		Yes	NULL			Change Drop More

Indexes:

Action	Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
Edit Drop	PRIMARY	BTREE	Yes	No	phone	7	A	No	

ii)data inserted thorough forms

The screenshot shows the phpMyAdmin interface for the 'blooddonar' table. The table contains 7 rows of data. The columns are: name, age, email, phone, address, message, gender, and bloodtype.

	name	age	email	phone	address	message	gender	bloodtype
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	Manam Laxmi Nivas	22	nivas@vistudent.ac.in	1234567891	Street vijay,Delhi	NEED A-	Male	O+
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	Babitha	19	babithasreepouli@gmail.com	7013370666	Gulzarpet,Ananthapur	I need AB- Blood	Female	B+
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	xyz	20	xyz@gmail.com	7894561235	AP	NEED B+	Male	A+
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	lanka jaswanth	18	jaswanth.lanka@gmail.com	8103456565	street 2, vijaywada	I need B+	Male	A-
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	Badri Nath	45	badrinathbk@gmail.com	8179880955	1st road,Benz circle, Kurnool	I need AB+	Male	B+
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	Anirudh Karanam	19	anirudhnba@gmail.com	8688456460	Georgepet,Ananthapur,AP	I need O+	Male	B+
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	Manish Rao	21	manish@gmail.com	9949687888	Karimnagar,Hyderabad		Male	AB+

CONCLUSION

The goals and objectives of the Blood Bank Management System are as follows:

- To provide a means for the blood bank to publicize and advertise blood donation programs.
- To allow the probable recipients to make search and match the volunteer donors, and make request for the blood.
- To provide an efficient donor and blood stock management functions to the blood bank by recording the donor and blood details.
- To improve the efficiency of blood stock management by alerting the blood bank staffs when the blood quantity is below its par level or when the blood stock has expired.
- To provide synchronized and centralized donor and blood stock database.
- To provide immediate storage and retrieval of data and information.

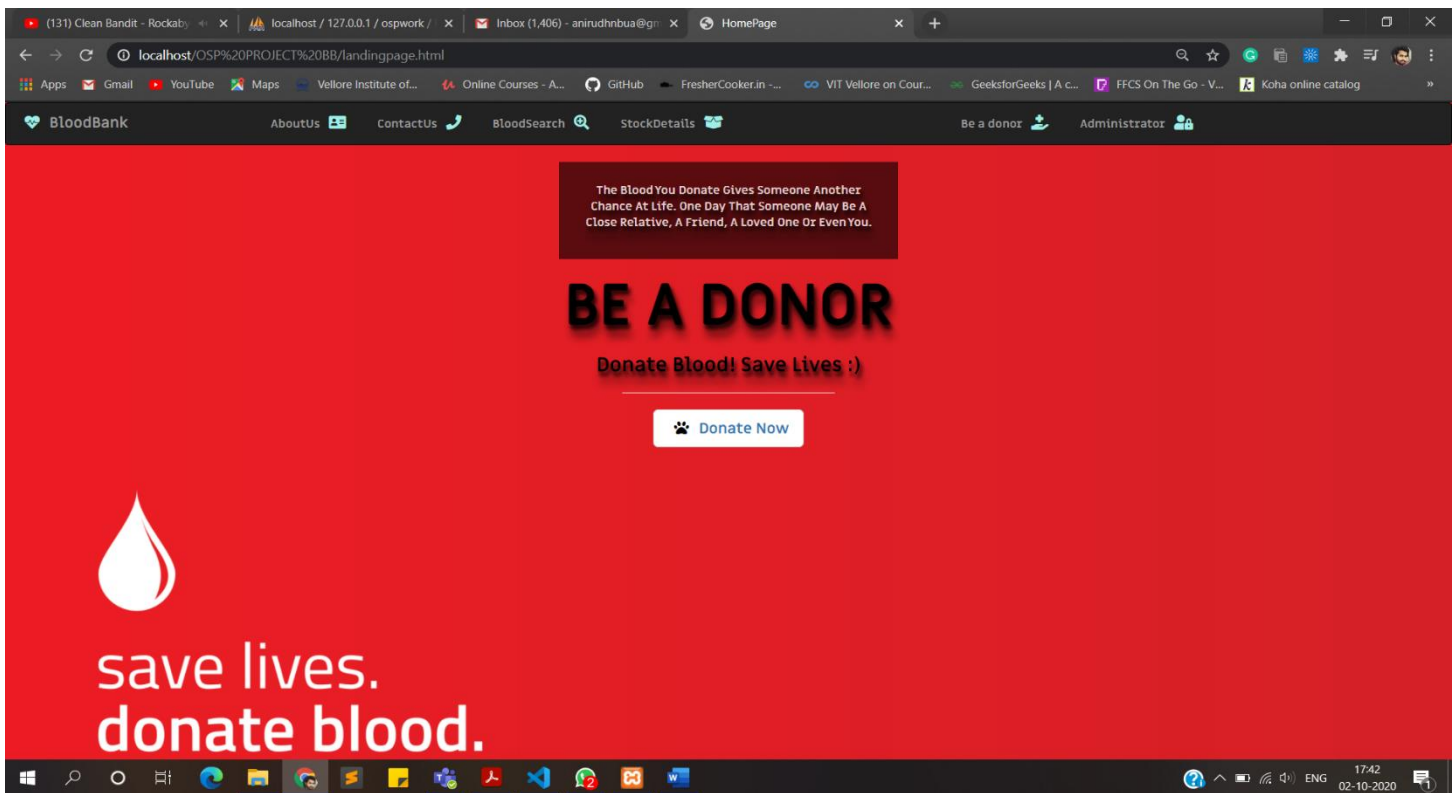
REFERENCES

<https://www.w3schools.com/>

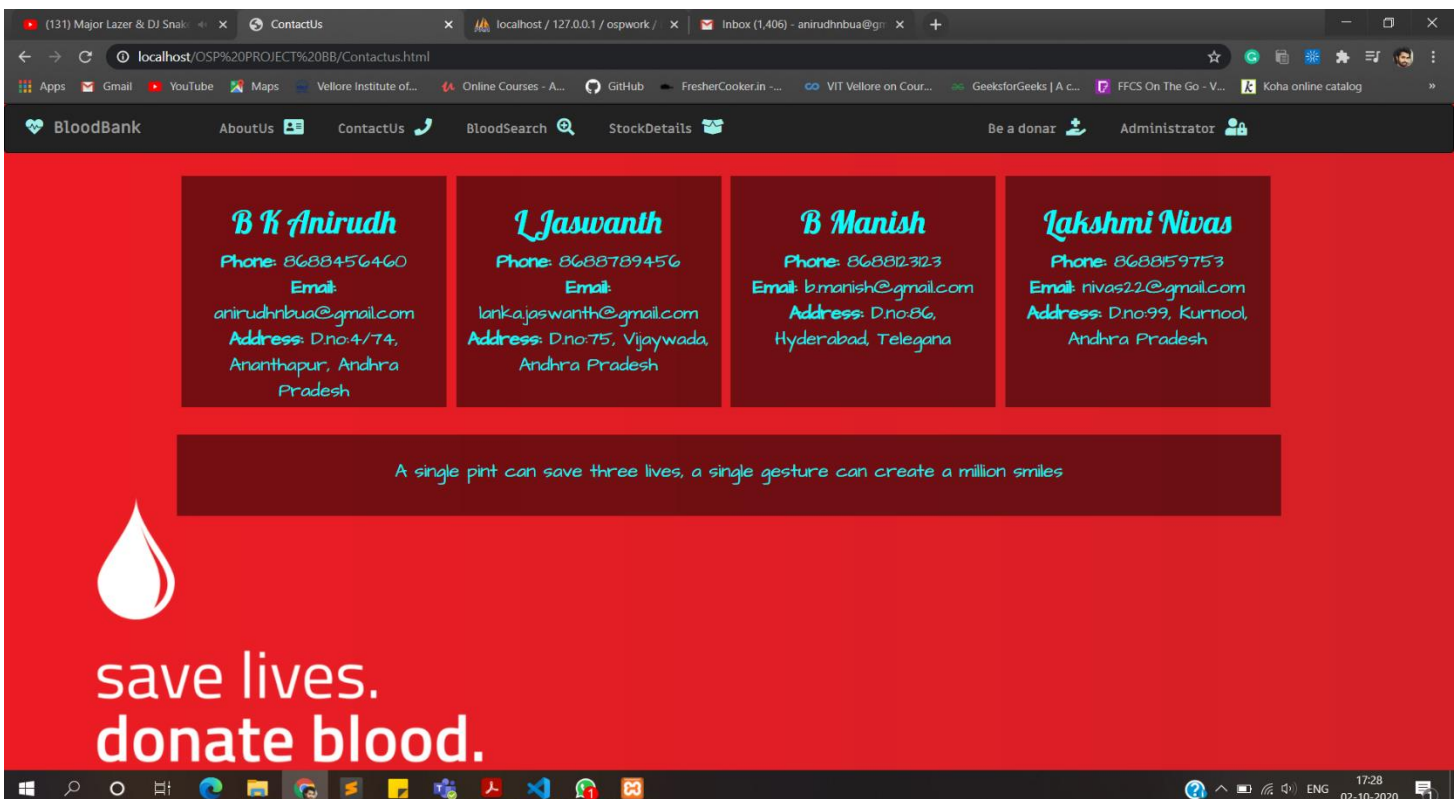
<https://stackoverflow.com/>

SNAPSHOTS

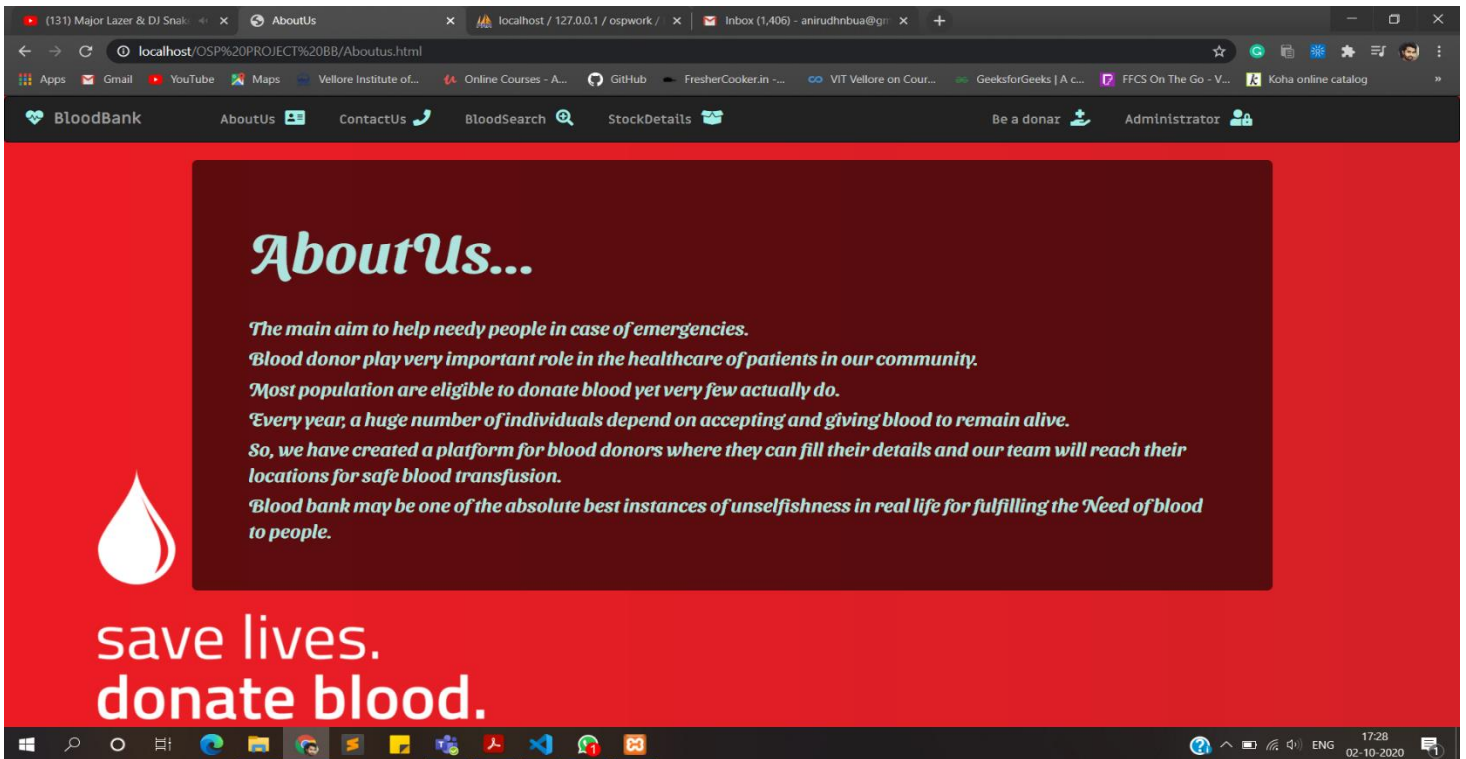
LANDING PAGE



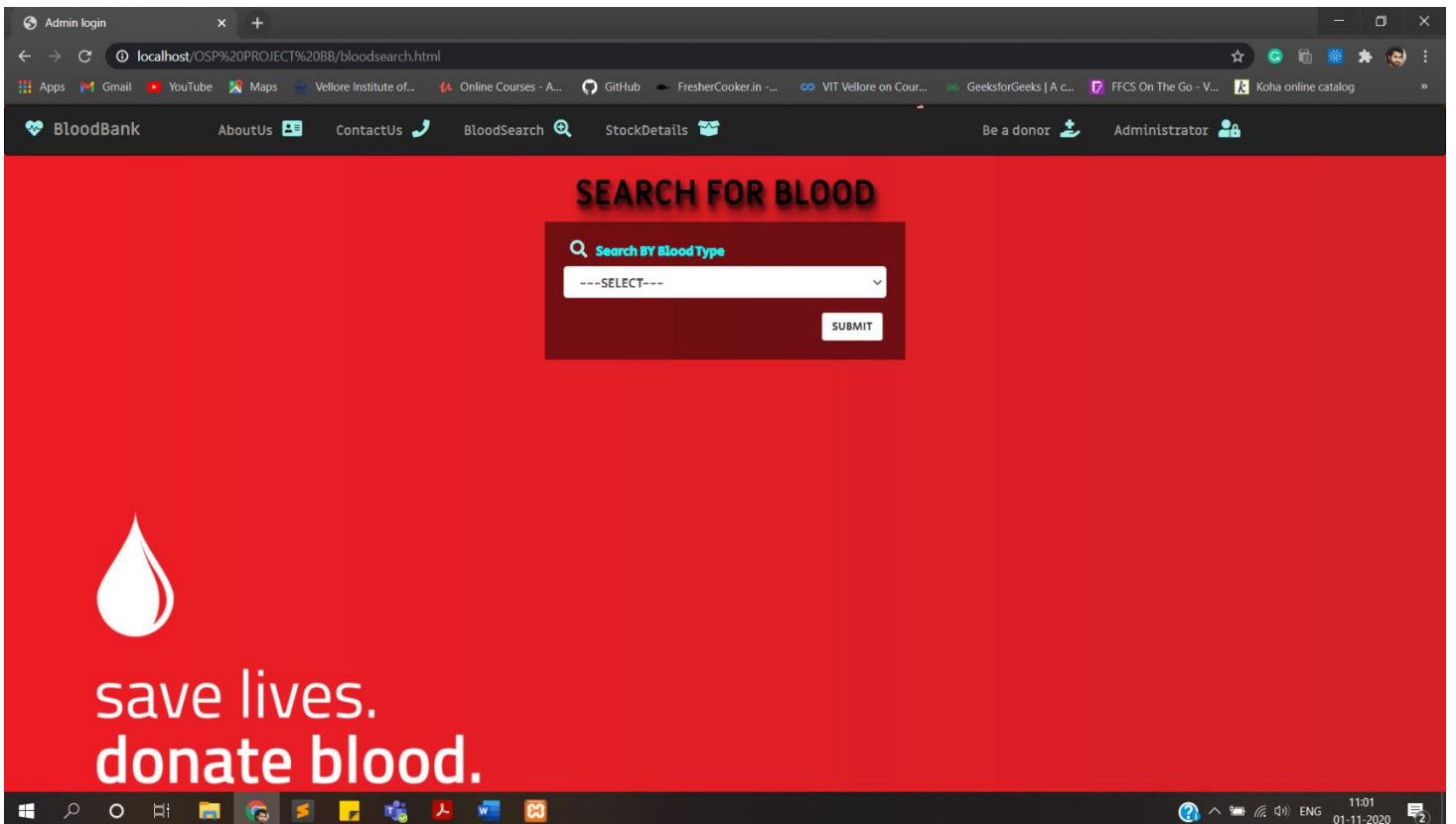
ABOUT US:



CONTACT US:



BLOOD SEARCH:



BLOOD SEARCH RESULT:


BloodSearch

localhost/OSP%20PROJECT%20BB/bloodsearch.php

BloodBank AboutUs ContactUs BloodSearch StockDetails Be a donor Administrator

STOCKS

NAME	AGE	EMAIL	MOBILE NUMBER	GENDER	BLOOD TYPE	Address
Prajwal	22	prajwal@gmail.com	12345678	Male	AB+	guljarpet,shanthi mandir
Manish Rao	21	manish@gmail.com	9949687888	Male	AB+	Karimnagar,Hyderabad


save lives.
donate blood.

11:01
01-11-2020

STOCK DETAILS:


StockDetails

localhost/OSP%20PROJECT%20BB/stock.php

BloodBank AboutUs ContactUs BloodSearch StockDetails Be a donor Administrator

STOCK DETAILS

NAME	AGE	EMAIL	MOBILE NUMBER	GENDER	BLOOD TYPE
Prajwal	22	prajwal@gmail.com	12345678	Male	AB+
Babitha	19	babithasreepouli@gmail.com	7013370666	Female	B+
lanka jaswanth	18	jaswanth.lanka@gmail.com	8103456565	Male	A-
Badri Nath	45	badrinathbk@gmail.com	8179880955	Male	B+
Maresh Babu	42	babu@gmail.com	8686855555	Male	A+
Anirudh Karanam	19	anirudhnua@gmail.com	8688456460	Male	B+
Raghuram	41	raghurampouli@gmail.com	9494189895	Male	AB-
Manish Rao	21	manish@gmail.com	9949687888	Male	AB+


save lives.
donate blood.

11:02
01-11-2020

BE A DONOR (REGISTRATION FORM)

i)form

REGISTRATION FROM

Fullname
Anirudh Karanam

Age
20

Email
example@hotmail.com

Phone
9912345678

Address
hoby street, Delhi

Message
Leave a Message

Gender
---SELECT---

Blood type
---SELECT---

**save lives.
donate blood.**

SUBMIT

ii)data entry

REGISTRATION FROM

Fullname
Badri Noth

Age
45

Email
badrinathbk@gmail.com

Phone
8179880955

Address
1st road, Benz circle, Kurnool

Message
I need AB+

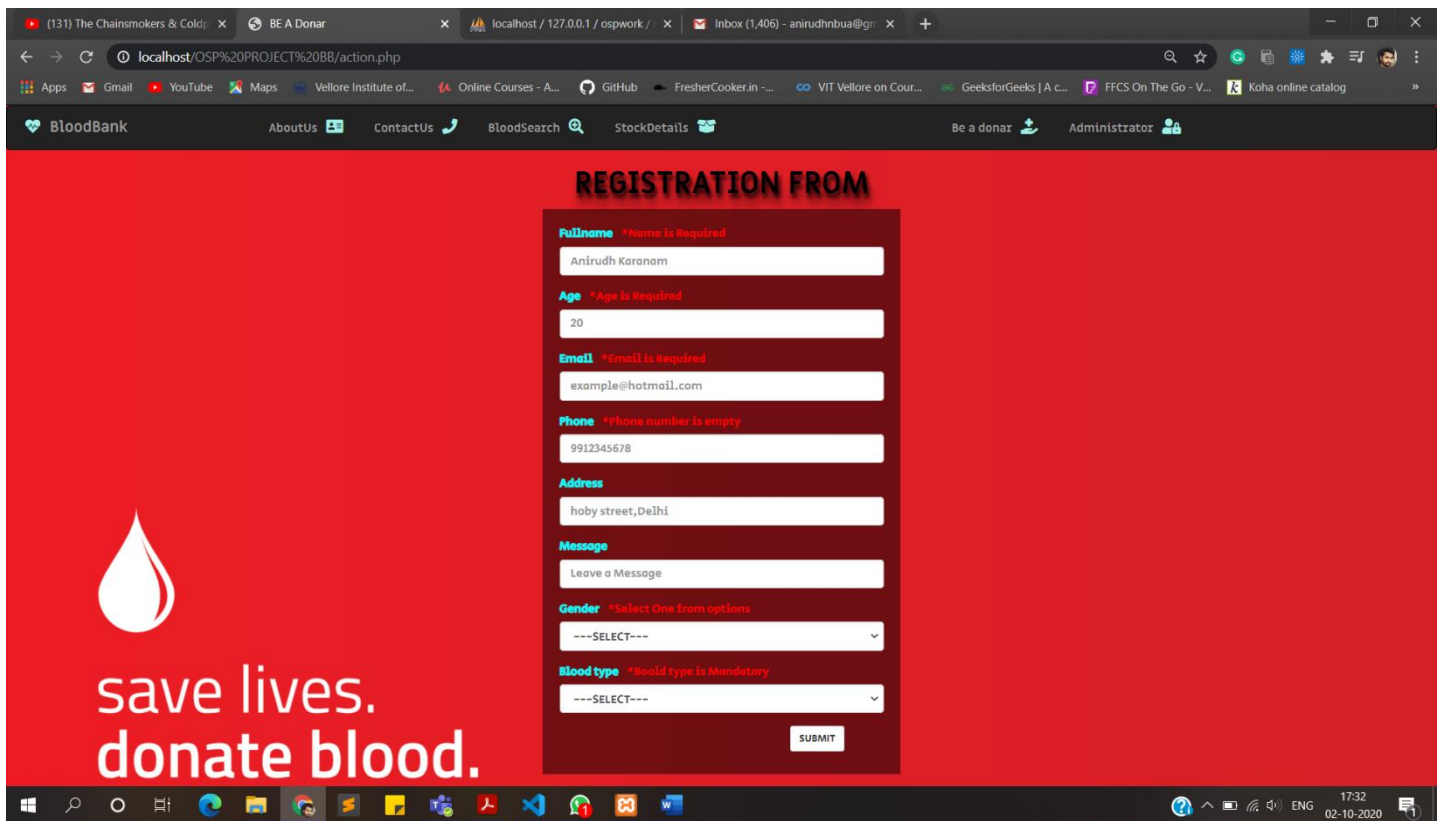
Gender
Male

Blood type
B+

**save lives.
donate blood.**

SUBMIT

iii) validation

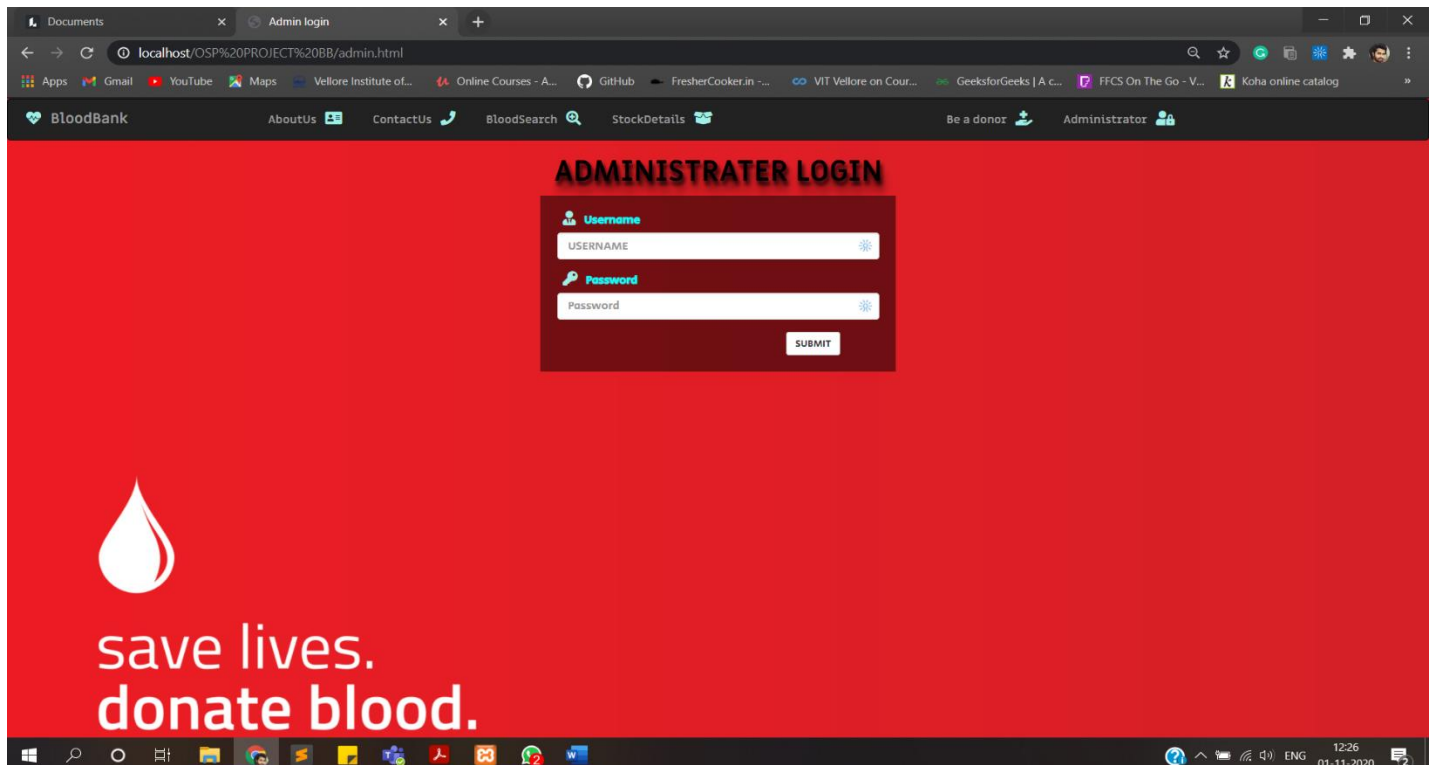


The screenshot shows a web browser window with the URL `localhost/OSP%20PROJECT%20BB/action.php`. The page has a red background with a white blood drop icon and the text "save lives. donate blood." on the left. On the right, there is a "REGISTRATION FROM" form with the following fields:

- Fullname** *Name is Required:
- Age** *Age is Required:
- Email** *Email is Required:
- Phone** *Phone number is empty:
- Address**:
- Message**:
- Gender** *Select One from options:
- Blood type** *Blood type is Mandatory:

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

ADMINISTRATOR LOGIN



The screenshot shows a web browser window with the URL `localhost/OSP%20PROJECT%20BB/admin.html`. The page has a red background with a white blood drop icon and the text "save lives. donate blood." on the left. On the right, there is an "ADMINISTRATER LOGIN" form with the following fields:

- Username**:
- Password**:

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

ADMINISTRATION PANAL (after admin login)

DONOR DETAILS

The screenshot shows the Admin Dashboard with a sidebar on the left containing navigation links: ADMIN, DONOR DETAILS, SEARCH DONOR, ADD DONOR, DELETE DONOR, and LOGOUT. The main content area is titled "DONOR DETAILS" and displays a table of donor information. At the bottom of the dashboard, there is a banner that reads "save lives. donate blood."

NAME	AGE	EMAIL	MOBILE NUMBER	GENDER	BLOOD TYPE
Prajwal	22	prajwal@gmail.com	12345678	Male	AB+
Babitha	19	babithasreepouli@gmail.com	7013370666	Female	B+
lanka jaswanth	18	jaswanth.lanka@gmail.com	8103456565	Male	A-
Badri Nath	45	badrinathbk@gmail.com	8179880955	Male	B+
Mahesh Babu	42	babu@gmail.com	8686855555	Male	A+
Anirudh Karanam	19	anirudhnua@gmail.com	8688456460	Male	B+
Raghuram	41	raghurampouli@gmail.com	9494189895	Male	AB-
Manish Rao	21	manish@gmail.com	9949687888	Male	AB+

SEARCH DONOR

The screenshot shows the Admin Dashboard with the "SEARCH DONOR" option selected in the sidebar. The main content area is titled "SEARCH FOR BLOOD" and features a search form with a dropdown menu labeled "Search BY Blood Type" and a "SUBMIT" button. Below the search form, the "DONOR DETAILS" table is displayed, showing the same donor information as in the previous screenshot. The banner "save lives. donate blood." is visible at the bottom.

NAME	AGE	EMAIL	MOBILE NUMBER	GENDER	BLOOD TYPE
Prajwal	22	prajwal@gmail.com	12345678	Male	AB+
Babitha	19	babithasreepouli@gmail.com	7013370666	Female	B+
lanka jaswanth	18	jaswanth.lanka@gmail.com	8103456565	Male	A-
Badri Nath	45	badrinathbk@gmail.com	8179880955	Male	B+
Mahesh Babu	42	babu@gmail.com	8686855555	Male	A+
Anirudh Karanam	19	anirudhnua@gmail.com	8688456460	Male	B+
Raghuram	41	raghurampouli@gmail.com	9494189895	Male	AB-
Manish Rao	21	manish@gmail.com	9949687888	Male	AB+

ADD DONOR

The screenshot shows the 'ADD DONOR' form in the Admin Dashboard. The form is titled 'ADD DONOR' and is located on the right side of the dashboard. The form fields are:

- Fullname: Anirudh Karanam
- Age: 20
- Email: example@hotmail.com
- Phone: 9912345678
- Address: hoby street, Delhi
- Message: Leave a Message
- Gender: ---SELECT---
- Blood type: ---SELECT---

A 'SUBMIT' button is located at the bottom right of the form. The dashboard sidebar on the left contains the following items:

- ADMIN (with a profile icon)
- DONOR DETAILS (with an information icon)
- SEARCH DONOR (with a magnifying glass icon)
- ADD DONOR (with a plus icon)
- DELETE DONOR (with a minus icon)
- LOGOUT (with a logout icon)

The background of the dashboard features a large red banner with the text 'save lives. donate blood.'

DELETE DONOR

The screenshot shows the 'DELETE DONOR' form in the Admin Dashboard. The form is titled 'DELETE A ENTRY' and is located on the right side of the dashboard. The form fields are:

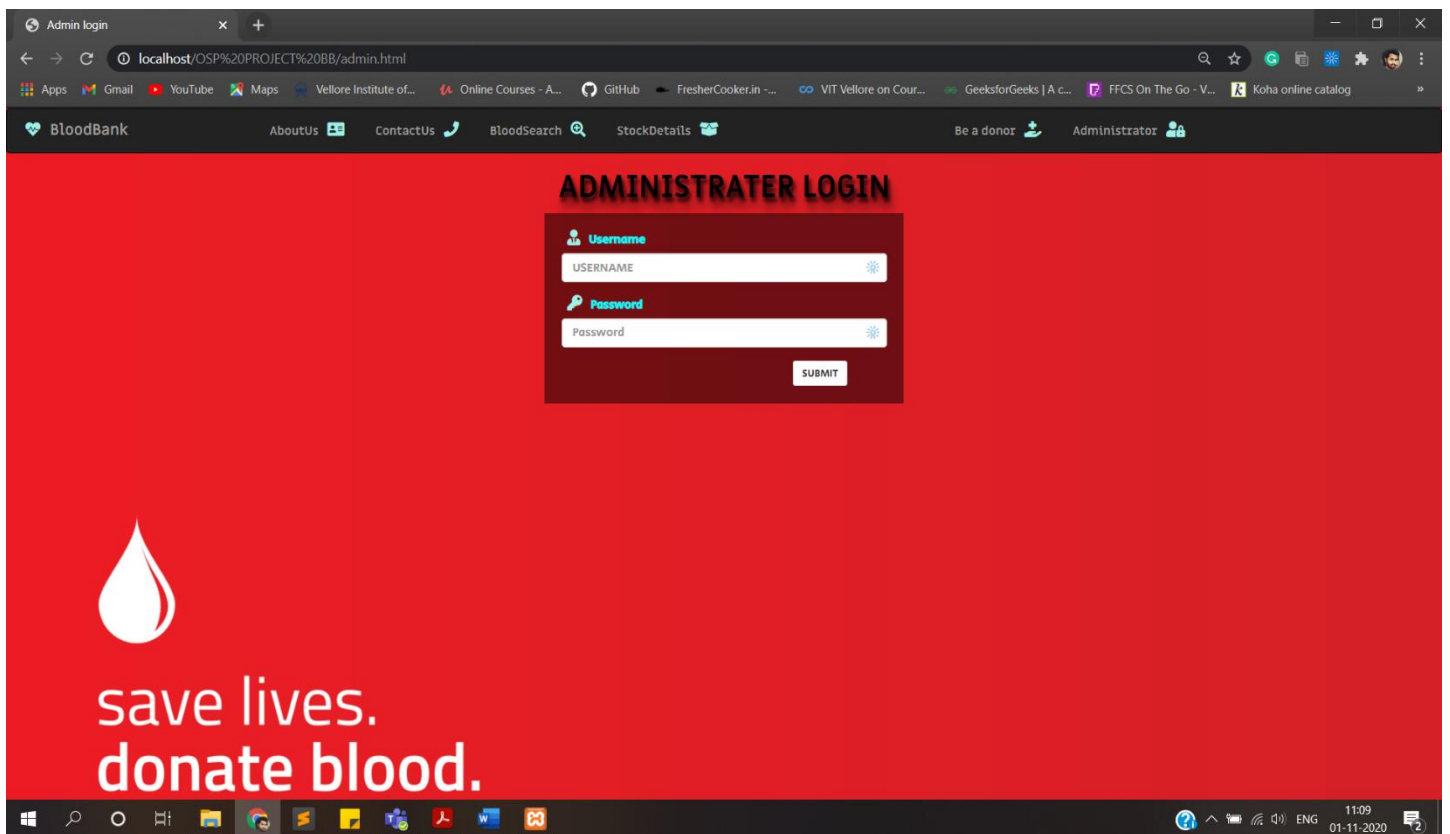
- Phone: 8688456460

A 'SUBMIT' button is located at the bottom right of the form. The dashboard sidebar on the left contains the following items:

- ADMIN (with a profile icon)
- DONOR DETAILS (with an information icon)
- SEARCH DONOR (with a magnifying glass icon)
- ADD DONOR (with a plus icon)
- DELETE DONOR (with a minus icon)
- LOGOUT (with a logout icon)

The background of the dashboard features a large red banner with the text 'save lives. donate blood.'

ON LOGOUT



SOURCE CODE:

```
<!DOCTYPE html>
<html>
  <head>
    <title>HomePage</title>
    <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootst
rap.min.css" integrity="sha384-
BVYiISIFeK1dGmJRAkycuHAHRg320mUcww7on3RYdg4Va+PmSTsz/K68vbdEjh4u" crossorigin="anonymous">
    <link rel="stylesheet" href="https://use.fontawesome.com/releases/v5.14.0/css/all.css"
integrity="sha384-
HzLeBuhoNPvSL5KYnjx0BT+WB0QEEqLprO+NBkkk5gbc67FTaL7XIGa2w1L0XbGc" crossorigin="anonymous">
    <script src="https://code.jquery.com/jquery-3.5.1.min.js" integrity="sha256-
9/aliU8dGd2tb60SsuzixeV4y/faTqgFtohetphbbj0=" crossorigin="anonymous"></script>
    <link rel="stylesheet" href="landingpage.css">
    <link href="https://fonts.googleapis.com/css2?family=Miriam+Libre:wght@700&display=swap
" rel="stylesheet">
  </head>
  <body>
    <nav class="navbar navbar-inverse">
      <div class="container-fluid">
        <div class="navbar-header">
          <button type="button" class="navbar-toggle collapsed" data-
toggle="collapse" data-target="#bs-example-navbar-collapse-1" aria-expanded="false">
            <span class="sr-only">Toggle navigation</span>
            <span class="icon-bar"></span>
            <span class="icon-bar"></span>
            <span class="icon-bar"></span>
          </button>
          <a class="navbar-brand" href="landingpage.html"><i class="fas fa-
heartbeat"></i> BloodBank</a>
        </div>
        <div class="container">
          <div class="collapse navbar-collapse" id="bs-example-navbar-collapse-1">
            <ul class="nav navbar-nav">
              <li><a href="Aboutus.html">AboutUs <i class="fas fa-address-
card"></i></a></li>
              <li><a href="Contactus.html">ContactUs <i class="fas fa-
phone"></i></a></li>
              <li><a href="bloodsearch.html">BloodSearch <i class="fas fa-search-
plus"></i></a></li>
              <li><a href="stock.php">StockDetails <i class="fas fa-box-
open"></i></a></li>
            </ul>

            <ul class="nav navbar-nav navbar-right">
```

```

                <li><a href="Beadonar.php">Be a donor <i class="fas fa-hand-holding-
medical"></i></a></li>
                <li><a href="admin.html">Administrator <i class="fas fa-user-
lock"></i></a></li>
            </ul>
        </div>
    </div>
</div>
</nav>
<div class="container">
    <div class="col-lg-12">
        <div id="content">
            <div id="quote">
                <p>The Blood You Donate Gives Someone Another Chance At Life. One Day T
hat Someone May Be A Close Relative, A Friend, A Loved One Or Even You.</p>
            </div>
            <h1>BE A DONOR</h1>
            <h3>Donate Blood! Save Lives :)</h3>
            <hr>
            <button class="btn btn-default btn-
lg"><a href="Beadonar.php"><i class="fas fa-paw spl"></i>    Donate Now</a></button>

            </div>
        </div>
    </div>
</div>

</body>
</html>

```