

SWE1012 E-GOVERNANCE J-COMPONENT



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VELLORE ■ CHENNAI

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PROJECT TITLE:

ONLINE BLOOD BANK

TEAM MEMBERS:

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OBJECTIVE

To develop a software that supports online blood donation.

ABSTRACT

- ▶ The software system is an online blood bank management system that helps in managing various blood bank operations effectively.
- ▶ The project consists of a central repository containing various blood deposits available along with associated details.
- ▶ These details include blood type, storage area and date of storage. These details help in maintaining and monitoring the blood deposits.
- ▶ The project is an online system that allows checking whether required blood deposits of a particular group are available in the blood bank.
- ▶ This online system is developed on .net platform and supported by a SQL database to store blood and user specific details.

INTRODUCTION

Technology has moved us into the world of automation and helped us in data keeping, making business reports and recording various details in no time.

There are problems in managing the donors, recipients, Hospitals and camp records etc. The records of the donor might not be kept safely and there might be missing of donor's records due to human error or disasters. Besides that, errors might occur when the staff keeps more than one record for the same donor. So, it becomes really tedious for a person to search blood in case of emergency.

Online Blood Bank is designed to store, process, retrieve and analyze information concerned with the administrative and inventory management within a blood bank. The aim of the project is to maintain all the information pertaining to blood donors and different blood groups available in each blood bank and help them manage in a better way.

The purpose of the Online Blood Bank is to simplify and automate the process of searching for blood in case of emergency and maintain the records of blood donors, recipients, blood donation camps and blood stocks in the bank.

MODULES INVOLVED

▶ LOGIN

- **DONOR**

- **LOGIN**

- **FEEDBACK**
 - **REGISTRATION FOR DONATING THE BLOOD**
 - **CHANGE IN DETAILS**
 - **LOGOUT**

- **SIGN UP**

- **ACCEPTOR**

- **LOGIN**

- **FEEDBACK**
 - **LOGOUT**

- **SIGN UP**

▶ WHY GIVE BLOOD?

▶ WHO CAN GIVE BLOOD?

▶ TIPS FOR BLOOD DONATION

▶ FURTHER INFORMATION

FEATURES:

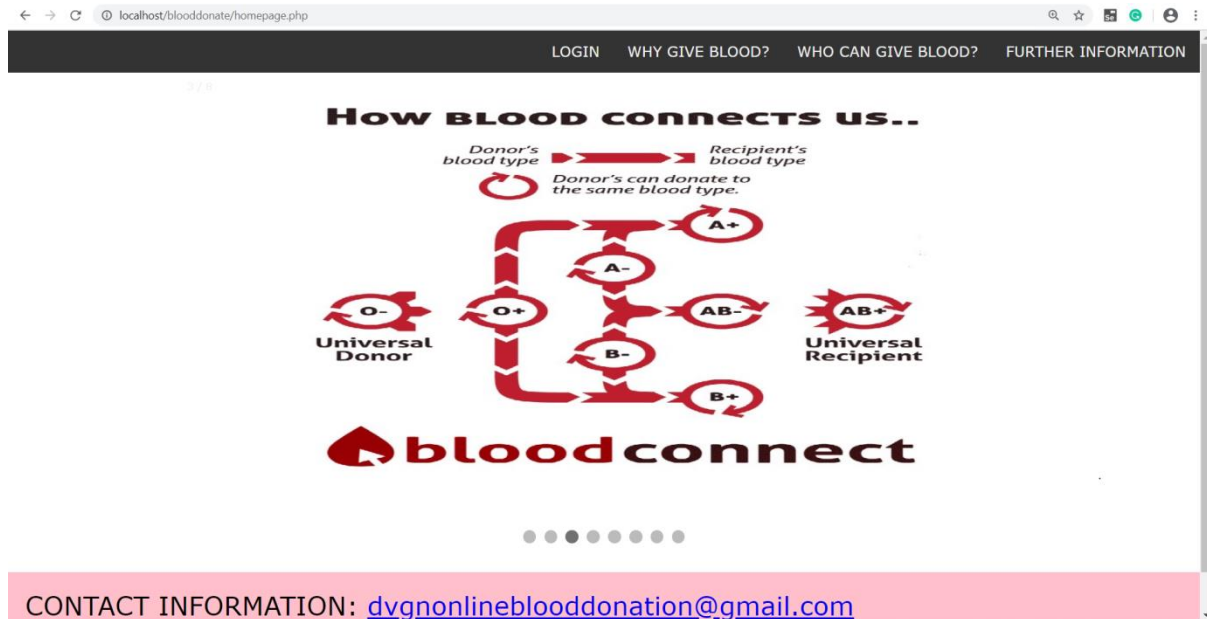
- **Online Registration/Login:** The users that are in need of blood can register online and find their suitable donors online.
- **Donor registration:** Donors can also register in the system to post their donation information.
- **Eligibility:** This is the criteria for the donor who should follow.
- **Modifying donor details:** This module is meant for donor in which he can change his details.
- **Blood requirement posting:** Already registered users can also post their requirements need for blood.
- **Donated blood storage data and availability check:** The system automatically stores the information as soon as there is any update made.
- **Alternative blood group:** If the particular blood group is not available, the donors with blood group like O⁺ will be displayed.
- **Donor Finder:** The system automatically finds the donor information when there arises any requirement.

SCREENSHOTS

FRONT-END

1. HOME PAGE:

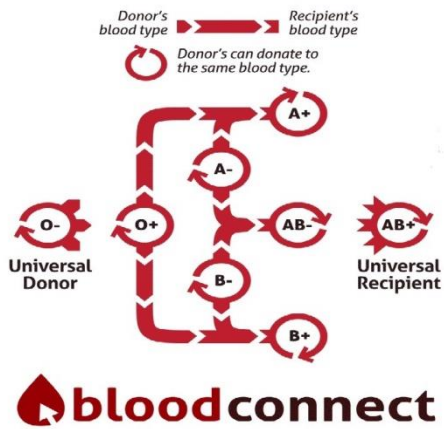
As we open the file home page will be displayed as shown in the figure.



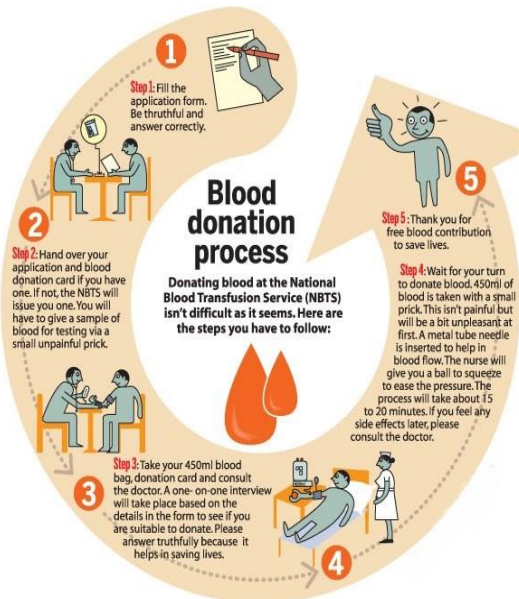
2) SIDE SHOW PICTURES:



How BLOOD connects us..



14 Jun World blood donor day



WHAT IS BLOOD?

BLOOD IS THE
FLUID
THAT GIVES...

LIFE

IT TRANSPORTS OXYGEN FROM THE LUNGS TO BODY TISSUE AND CARBON DIOXIDE FROM BODY TISSUE TO THE LUNGS.

GROWTH

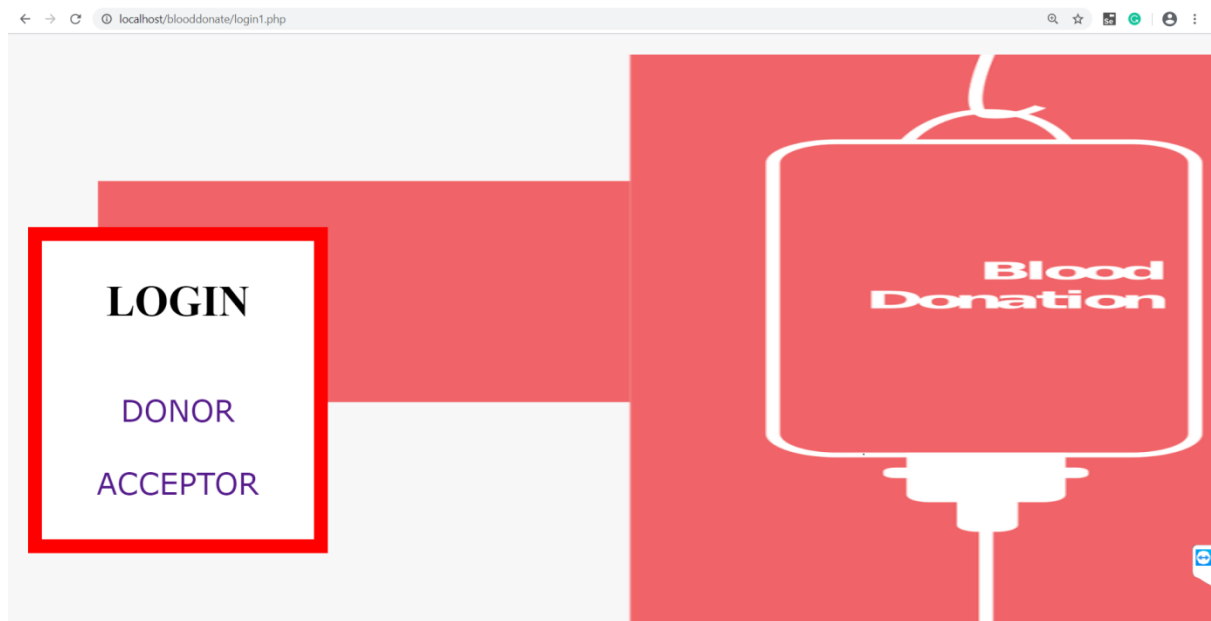
NOURISHMENT FROM DIGESTION AND HORMONES FROM GLANDS ARE TRANSPORTED THROUGHOUT THE BODY.

HEALTH

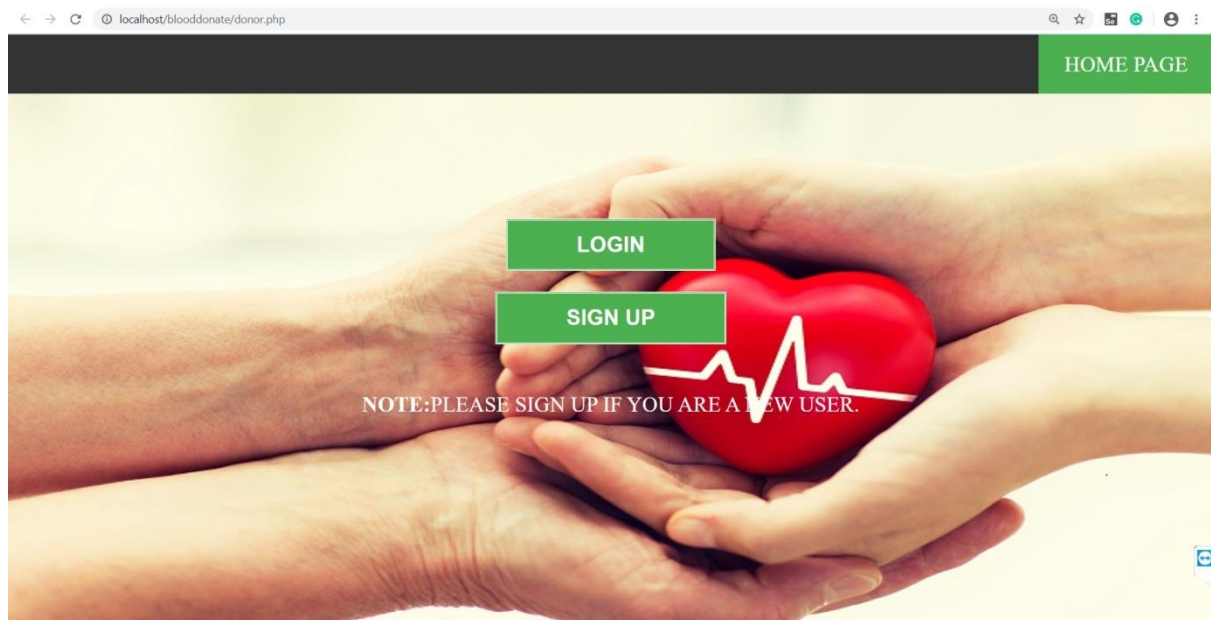
DISEASE FIGHTING SUBSTANCES ARE CARRIED TO THE TISSUE AND WASTE TO THE KIDNEYS.

2. Login

2 different types of users can login they are donor, acceptor.

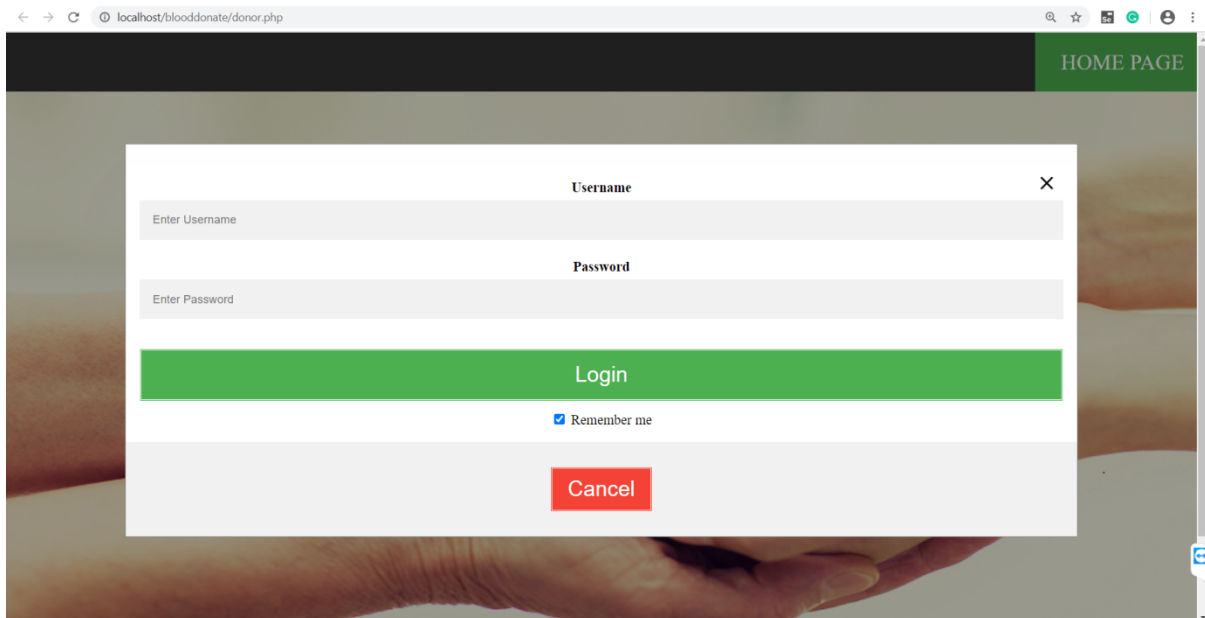


DONOR LOGIN:



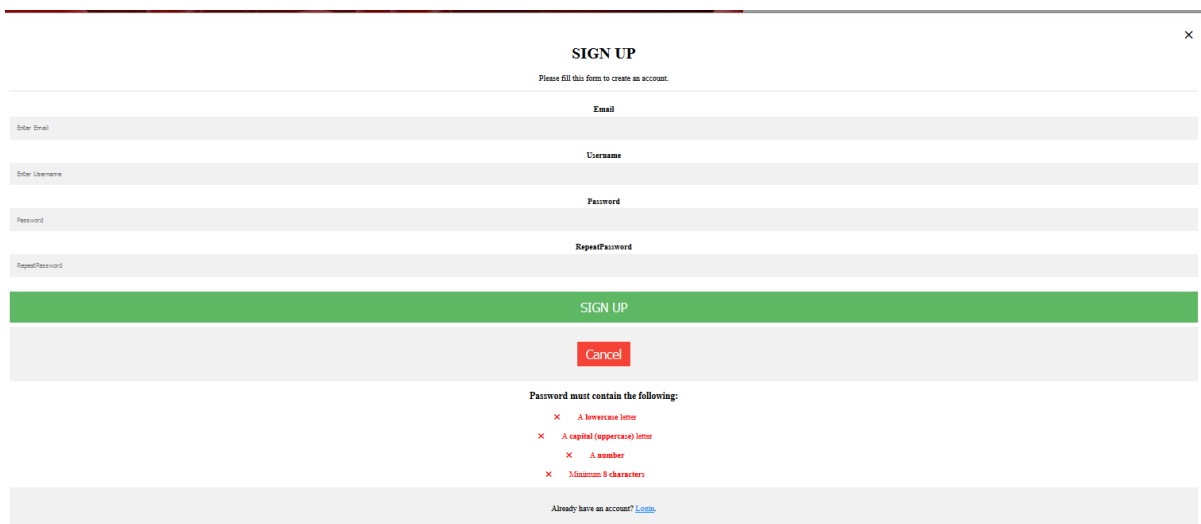
It has 3 options homepage-which will go back to the home page

Login- which has login module



The screenshot shows a web browser window with the address bar displaying "localhost/blooddonate/donor.php". A login form is overlaid on a background image of hands. The form has a title "Username" and a close button "X". It contains two input fields: "Enter Username" and "Enter Password". Below the password field is a green "Login" button, a checkbox labeled "Remember me", and a red "Cancel" button. The browser's top bar shows navigation icons and a "HOME PAGE" link.

SIGN UP – sign up form in which the information has to give to register.



The screenshot shows a web browser window with a sign up form overlay. The form has a title "SIGN UP" and a close button "X". It contains four input fields: "Enter Email", "Enter Username", "Password", and "Repeat Password". Below the password fields is a green "SIGN UP" button, a red "Cancel" button, and a list of password requirements: "Password must contain the following:", "A lowercase letter", "A capital (uppercase) letter", "A number", and "Minimum 8 characters". At the bottom, there is a link "Already have an account? Login".

AFTER DONOR LOGIN:

[Homepage](#) [Feedback](#) [Registration for donating the blood](#) [change in details](#) [Logout](#)

FEEDBACK:

← → ↻ localhost/blooddonate/feedbackfordonor.php 🔍 ☆ 🏠 🌐 👤 ⋮

Feedback Form

FirstName

Your name..

LastName

Your last name..

Contactnumber

Your Contact number..

Comments

Write something..

Submit

REGISTRATION FOR DONATING THE BLOOD:

Registration

Please fill in this form to register.

Firstname

Enter your Firstname

Lastname

Enter your Lastname

Age

Enter Age

Gender ☒ MALE ☐ FEMALE ☐ OTHER

BloodGroup

Enter BloodGroup

HealthCondition

Enter HealthCondition

ContactNumber

Enter ContactNumber

Activate Windows
Go to Settings to activate Windows.

ContactNumber

Enter ContactNumber

Address

Enter Address

Email

Enter Email

Register

Cancel

Activate Windows
Go to Settings to activate Windows.

CHANGE IN DEATAILS:

Change in any of the details

FirstName

Your name..

LastName

Your last name..

New Contact number

Your Contact number..

New Address

Your New Address..

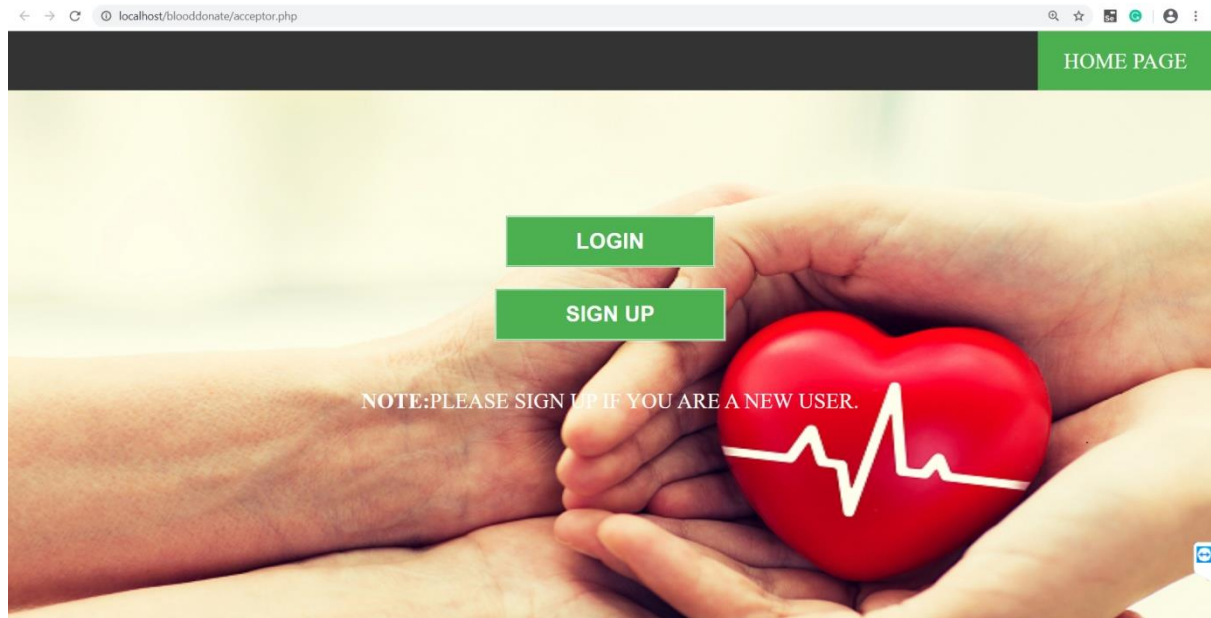
New email

Your email..

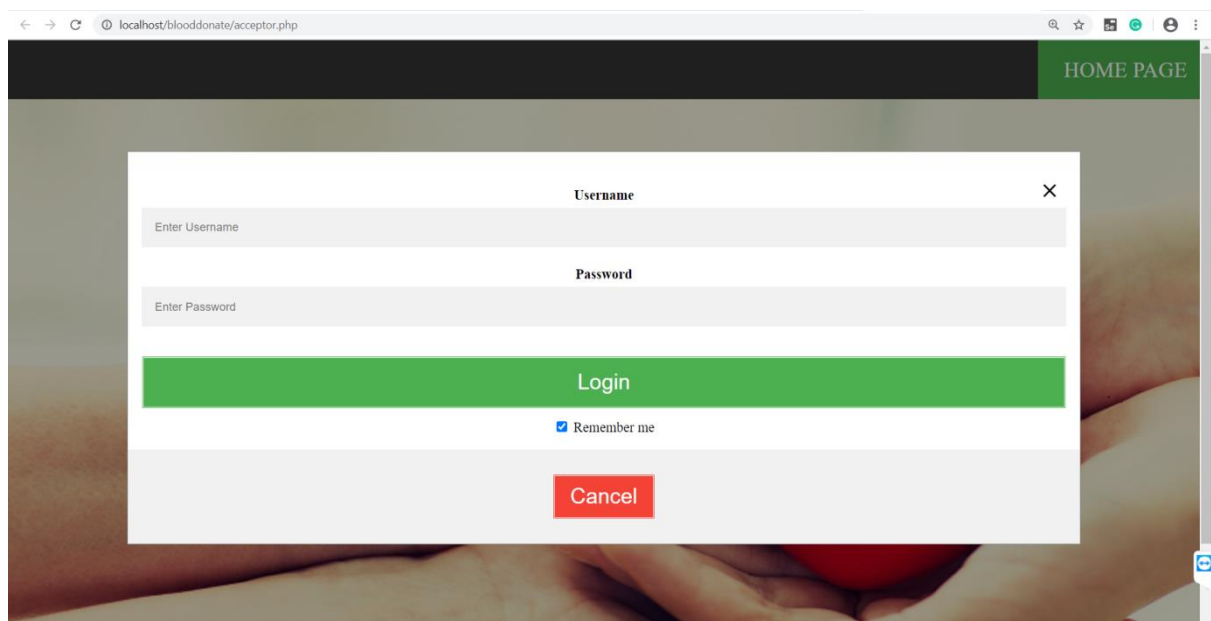
submit

ACCEPTOR LOGIN:

It has 3 options homepage-which will go back to the home page.



Login- which has login module.



Register –registration form in which the information has to give to register.

The screenshot shows a web browser window with the address bar displaying `file:///C:/Users/ACER/Desktop/pose/acceptor.html`. The page title is "REGISTER". Below the title, a message says "Please fill in this form to create an account." The form contains several input fields: "Acceptor_id" (with placeholder "Enter your Acceptor_id"), "First name" (with placeholder "Enter your First name"), "Middle name" (with placeholder "Enter your Middle name"), "Last name" (with placeholder "Enter your Last name"), "Age" (with placeholder "Enter Age"), "Gender" (with radio buttons for MALE, FEMALE, and OTHER), "Contact Number" (with placeholder "Enter Contact Number"), and "Address" (with placeholder "Enter Address"). An "Activate Windows" watermark is visible in the bottom right corner.

The screenshot shows the bottom half of the registration form. It includes input fields for "Email" (placeholder "Enter Email"), "Username" (placeholder "Enter Username"), "Password" (placeholder "Enter Password"), and "Repeat Password" (placeholder "Repeat Password"). Below these fields is a large green button labeled "Register". At the bottom of the form, there is a red button labeled "Cancel" and a link that says "Already have an account? [Login](#)". An "Activate Windows" watermark is also present in the bottom right corner.

AFTER ACCEPTOR LOGIN:

HomepageFeedbackLogout

enter the bloodgroupSubmit

id	Firstname	Lastname	Age	gender	BloodGroup	ContactNumber	Address	email	Message
1	Jwala Satya	Deepika	19	FEMALE	B+	9865723415	12/2345,cvbdfighjkertyuikighjk,mngffghyj	jwaladeepika99@gmail.com	Click
2	malyadri	vaishnavi	20	FEMALE	B+	7658234165	123XDCFVGBHJNMghnjmk678,cvbnjm	bmalyadrivaishnavi@gmail.com	Click
3	jonnagadla	navya	21	FEMALE	O+	8754231678	AZSXDCFVGBHJNMK123,GHNM	navyajnn@gmail.com	Click
10	geeta	mulagada	18	FEMALE	O+	9812309542	esdcfgvnb12345cvbn	geeta@gmail.com	Click
11	vaishnavi	beegala	24	FEMALE	AB-	9805689760	jdhdjdfthwuietfhewjfh	malyadri.vaishnavi@gmail.com	Click
12	malyadri	beegala	18	MALE	O-	9876540367	jfrfjefgerfjbrkh	malyadri@gmail.com	Click
13	ram	kumar	28	MALE	A+	8976423416	jdhdifdjfkchndkjfhoi56789	ram@gmail.com	Click
14	ram	kumar	28	MALE	A+	7358450908	jdhdifdjfkchndkjfhoi56789	ram@gmail.com	Click
15	vijaya kumar	beegala	30+	MALE	O-	9700370310	dghgfudygfwknoji	bvijayakumarbabu@gmail.com	Click
16	rama	naidu	30	MALE	AB-	7856372800	thuirfheirfhojo	rama@gmail.com	Click
17	sunil	sharma	27	MALE	AB+	8645289053	hfruitgerfjfbh	sharma@gmail.com	Click
18	ravi	kumar	24	MALE	B-	7653820183	hduyfwejfnwelojwio	ravi@gmail.com	Click
19	rama	naidu	30	MALE	AB-	7856372866	thuirfheirfhojo	rama@gmail.com	Click
20	Jwala Satya	Saketh	22	MALE	B+	9177002817	bjashjxzk2345ftyghbjn	jwalasaketh@gmail.com	Click
21	sita	kumari	30	FEMALE	A-	8974251647	gfyegfejgfu54763kfhjd	kumari@gmail.com	Click
23	hasini	jonnagadala	19	FEMALE	AB+	7864213459	hgdfuw657e6nikmn	hasini@gmail.com	Click
27	pavan	beegala	20	MALE	B+	9100375996	htguygeu68y98	pavan@gmail.com	Click
30	Mahesh	Babu	30	MALE	O-	9849160679	12/103,sedrftgbhh,shbxasnkzjm,ushajnk	mahesh@gmail.com	Click

FEEDBACK:

Feedback Form

FirstName

Your name..

LastName

Your last name..

Contactnumber

Your Contact number..

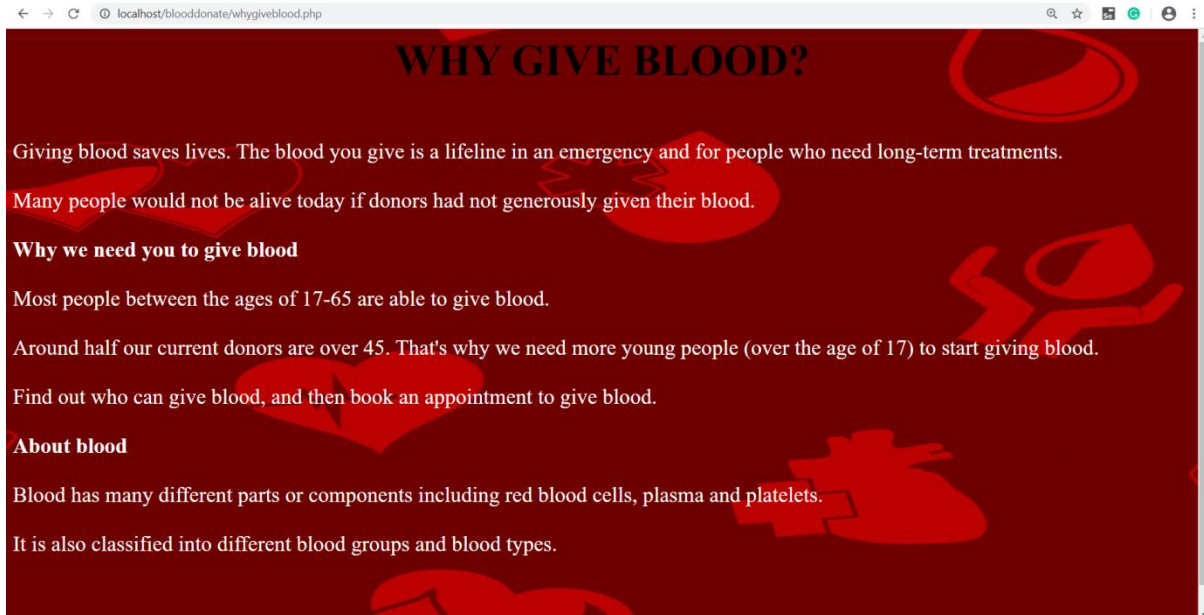
Comments

Write something..

Submit

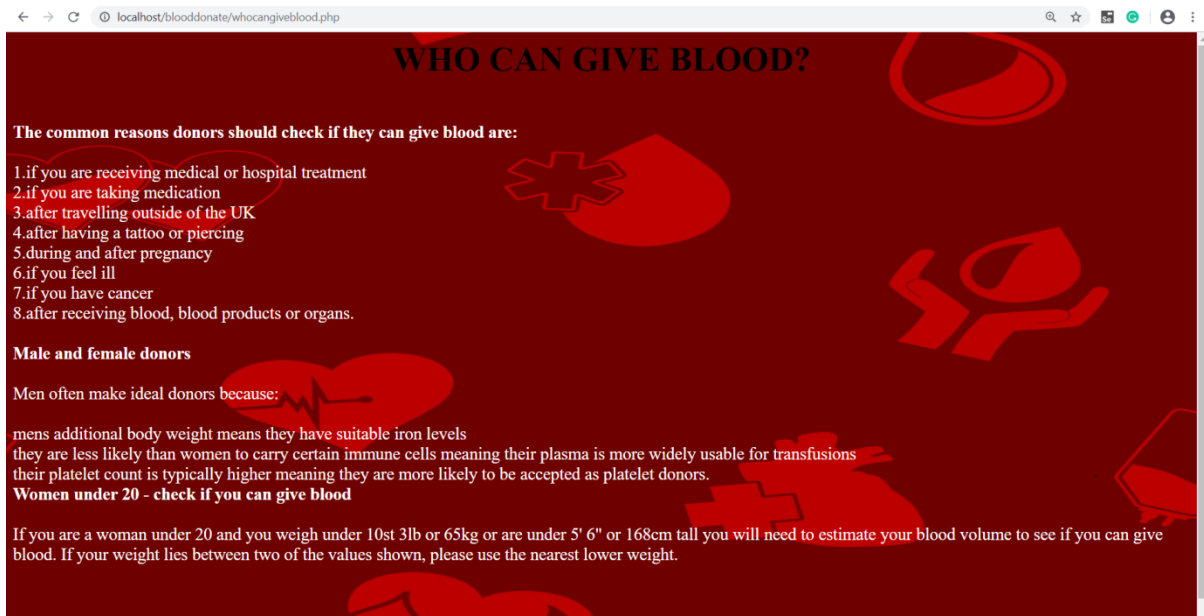
1) Why give blood:

It give the information which contain why should give blood and importance of it.



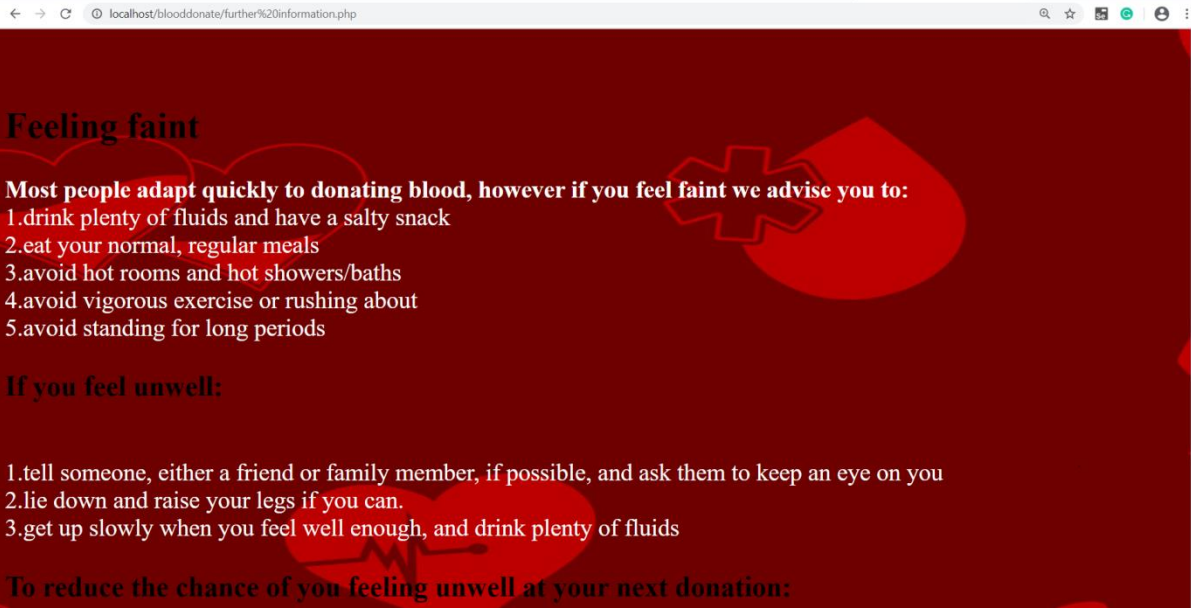
2) Who can give blood?

It gives the information which contain who can give blood and condition of it of it.



3) Further information:

It gives further information which contains some effect of blood donation.



The screenshot shows a web browser window with the address bar displaying 'localhost/blooddonate/further%20information.php'. The page has a dark red background with faint heart and cross patterns. The main heading is 'Feeling faint'. Below it, a paragraph states: 'Most people adapt quickly to donating blood, however if you feel faint we advise you to:'. This is followed by a numbered list of five points: 1. drink plenty of fluids and have a salty snack, 2. eat your normal, regular meals, 3. avoid hot rooms and hot showers/baths, 4. avoid vigorous exercise or rushing about, and 5. avoid standing for long periods. Below this list, another heading reads 'If you feel unwell:', followed by a numbered list of three points: 1. tell someone, either a friend or family member, if possible, and ask them to keep an eye on you, 2. lie down and raise your legs if you can, and 3. get up slowly when you feel well enough, and drink plenty of fluids. At the bottom of the visible text, it says 'To reduce the chance of you feeling unwell at your next donation:'.

Feeling faint

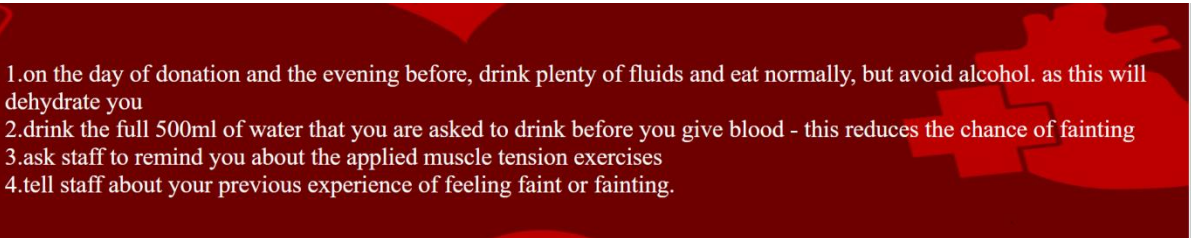
Most people adapt quickly to donating blood, however if you feel faint we advise you to:

1. drink plenty of fluids and have a salty snack
2. eat your normal, regular meals
3. avoid hot rooms and hot showers/baths
4. avoid vigorous exercise or rushing about
5. avoid standing for long periods

If you feel unwell:

1. tell someone, either a friend or family member, if possible, and ask them to keep an eye on you
2. lie down and raise your legs if you can.
3. get up slowly when you feel well enough, and drink plenty of fluids

To reduce the chance of you feeling unwell at your next donation:

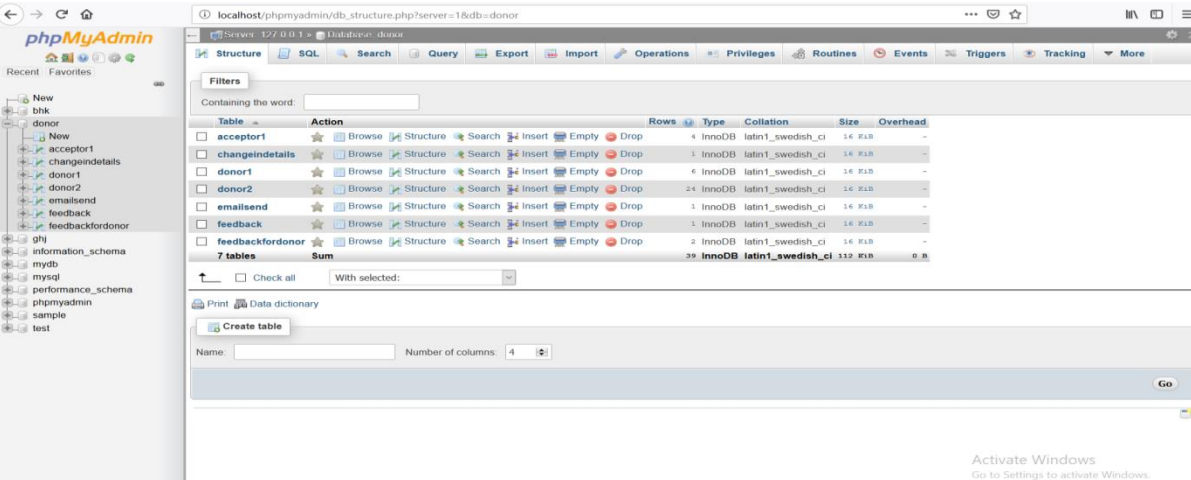


This block continues the 'Feeling faint' page with a numbered list of four points: 1. on the day of donation and the evening before, drink plenty of fluids and eat normally, but avoid alcohol. as this will dehydrate you, 2. drink the full 500ml of water that you are asked to drink before you give blood - this reduces the chance of fainting, 3. ask staff to remind you about the applied muscle tension exercises, and 4. tell staff about your previous experience of feeling faint or fainting.

1. on the day of donation and the evening before, drink plenty of fluids and eat normally, but avoid alcohol. as this will dehydrate you
2. drink the full 500ml of water that you are asked to drink before you give blood - this reduces the chance of fainting
3. ask staff to remind you about the applied muscle tension exercises
4. tell staff about your previous experience of feeling faint or fainting.

BACK-END:

Creation of the tables to store the information that the user given in the registration form for donor and acceptor.



The screenshot shows the phpMyAdmin interface in a web browser. The address bar shows 'localhost/phpmyadmin/db_structure.php?server=1&db=donor'. The left sidebar shows a tree view of databases, with 'donor' selected. The main panel displays the 'Structure' tab for the 'donor' database. It shows a table list with columns: Table, Action, Rows, Type, Collation, Size, and Overhead. The tables listed are: acceptor1, changeindetails, donor1, donor2, emailsend, feedback, feedbackfordonor, and a summary row for 7 tables. Below the table list, there is a 'Create table' section with a 'Name' field and a 'Number of columns' dropdown set to 4. The 'Go' button is visible. At the bottom right, there is a 'Activate Windows' watermark.

Table	Action	Rows	Type	Collation	Size	Overhead
acceptor1	Browse Structure Search Insert Empty Drop	4	InnoDB	latin1_swedish_ci	14 K B	-
changeindetails	Browse Structure Search Insert Empty Drop	1	InnoDB	latin1_swedish_ci	14 K B	-
donor1	Browse Structure Search Insert Empty Drop	6	InnoDB	latin1_swedish_ci	14 K B	-
donor2	Browse Structure Search Insert Empty Drop	24	InnoDB	latin1_swedish_ci	14 K B	-
emailsend	Browse Structure Search Insert Empty Drop	1	InnoDB	latin1_swedish_ci	14 K B	-
feedback	Browse Structure Search Insert Empty Drop	1	InnoDB	latin1_swedish_ci	14 K B	-
feedbackfordonor	Browse Structure Search Insert Empty Drop	2	InnoDB	latin1_swedish_ci	14 K B	-
7 tables	Sum	39	InnoDB	latin1_swedish_ci	112 K B	0 B

DONOR1 TABLE:

localhost/phpmyadmin/sql.php?server=1&db=donor&table=donor1&pos=0

Database: donor Table: donor1

Showing rows 0 - 5 (6 total, Query took 0.0039 seconds.) [Donor_id: 1... - 6...]

SELECT * FROM 'donor1' ORDER BY 'Donor_id' ASC

Options: Donor_id, Email, Username, Password, RepeatPassword

Donor_id	Email	Username	Password	RepeatPassword
1	jwaladeepika99@gmail.com	qaz	qazA1234	qazA1234
2	adfadf@g.com	k123	Qa123456	Qa123456
3	jk@gmail.com	zxcvb	ujmJ1234	ujmJ1234
4	jk@gmail.com	zxcvb	ujmJ1234	ujmJ1234
5	malayadri.vaishnavi@gmail.com	vaishnavi	Bv9866552959	Bv9866552959
6	malayadri@gmail.com	ram	pL123456	pL123456

DONOR2 TABLE:

localhost/phpmyadmin/sql.php?server=1&db=donor&table=donor2&pos=0

Database: donor Table: donor2

Showing rows 0 - 17 (18 total, Query took 0.0039 seconds.) [Donor_id: 1... - 18...]

SELECT * FROM 'donor2'

Options: id, Firstname, Lastname, Age, gender, BloodGroup, HealthCondition, ContactNumber, Address, email

id	Firstname	Lastname	Age	gender	BloodGroup	HealthCondition	ContactNumber	Address	email
1	Jwala Satya	Deepika	19	FEMALE	B+	good	9865723415	12/2345,cvbdjghkwerlyuikghj,mngtflghy	jwaladeepika99@gmail.com
2	malayadri	vaishnavi	20	FEMALE	B+	good	7658234165	123XDCFGVBHNMghnrmk678,cvbnjm	bmaliyadrivaishnavi@gmail.com
3	jonnagadia	navya	21	FEMALE	O+	good	8754231678	AZSXDCFGVBHNMJK123,GHNM	navyajn@gmail.com
4	sx	dsa					0		dgavhxn@gmail.com
5	sx	dsa					0		dgavhxn@gmail.com
6	aXZRFQVD	WDSFGBH					0		WSDC@gmail.com
7	aXZRFQVD	WDSFGBH					0		WSDC@gmail.com
8	hbnjm	wdscxz					0		wsdax@gmail.com
9	bijn	flyfy					0		abjshxhjb@ndkjsn.com
10	geeta	mulagada	18	FEMALE	O+	good	9812309542	esdcfgvhhb12345cvbn	geeta@gmail.com
11	vaishnavi	beegala	24	FEMALE	AB-	GOOD	9805689760	jdthdjtwhuiefthwjt	malayadri.vaishnavi@gmail.com
12	malayadri	beegala	18	MALE	O-	good	9876540367	jfjetgerfbrkh	malayadri@gmail.com
13	ram	kumar	28	MALE	A+	good	8976423416	jdthdjdjchndkjtho56789	ram@gmail.com
14	ram	kumar	28	MALE	A+	good	7358450908	jdthdjdjchndkjtho56789	ram@gmail.com
15	vijaya kumar	beegala	30+	MALE	O-	good	9700370310	dghfudjyfwknoji	bvijayakumarbabu@gmail.com
16	rama	naidu	30	MALE	AB-	good	7856372800	thurtthirthojo	rama@gmail.com
17	sunil	sharma	27	MALE	AB+	good	8645289053	hfrufgerjth	sharma@gmail.com
18	ravi	kumar	24	MALE	B-	good	7653820183	hduyfwegfhwelgwio	ravi@gmail.com

ACCEPTOR TABLE:

The screenshot shows the phpMyAdmin interface for the 'donor' database. The 'acceptor1' table is selected, and its structure is displayed. The table has the following columns: **Acceptor_id**, **Firstname**, **Middlename**, **Lastname**, **Age**, **Gender**, **ContactNumber**, **Address**, **Email**, **Username**, **Password**, and **RepeatPassword**. A query is executed, returning an empty result set. The query is: `SELECT * FROM `acceptor1``. Below the query, there are options to 'Create view' and 'Bookmark this SQL query'.

MySQL returned an empty result set (i.e. zero rows). (Query took 0.0021 seconds.)

```
SELECT * FROM `acceptor1`
```

Acceptor_id Firstname Middlename Lastname Age Gender ContactNumber Address Email Username Password RepeatPassword

Query results operations

Create view

Bookmark this SQL query

Label: ☐ Let every user access this bookmark

Bookmark this SQL query

Activate Windows
Go to Settings to activate Windows.

CHANGE IN DETAILS OF DONOR:

The screenshot shows the phpMyAdmin interface for the 'donor' database. The 'changeindetails' table is selected, and its structure is displayed. The table has the following columns: **id**, **Firstname**, **Lastname**, **ContactNumber**, **Address**, and **email**. A query is executed, returning one row. The query is: `SELECT * FROM `changeindetails``. The result shows a donor with the following details: **id**: 1, **Firstname**: mahesh, **Lastname**: babu, **ContactNumber**: hfyfghbsdfwejdjklk, **Address**: hfyfghbsdfwejdjklk, **email**: hfyfghbsdfwejdjklk. Below the query, there are options to 'Print', 'Copy to clipboard', 'Export', 'Display chart', and 'Create view'.

Showing rows 0 - 0 (1 total, Query took 0.0029 seconds.)

```
SELECT * FROM `changeindetails`
```

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

Options

	id	Firstname	Lastname	ContactNumber	Address	email
<input type="checkbox"/>	1	mahesh	babu	hfyfghbsdfwejdjklk	hfyfghbsdfwejdjklk	hfyfghbsdfwejdjklk

Check all | With selected: Edit Copy Delete Export

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

Query results operations

Print Copy to clipboard Export Display chart Create view

Bookmark this SQL query

Label: ☐ Let every user access this bookmark

Bookmark this SQL query

Activate Windows
Go to Settings to activate Windows.

FEEDBACK FOR ACCEPTOR:

localhost/phpmyadmin/sql.php?server=1&db=donor&table=feedback&pos=0

Server: 127.0.0.1 > Database: donor > Table: feedback

Showing rows 0 - 0 (1 total, Query took 0.0021 seconds)

SELECT * FROM `feedback`

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

	id	firstname	lastname	Contactnumber	comments
<input type="checkbox"/>	1	jwala satya	deepika	2147483647	xcdfvgbhjnm vbnjsmzk 1234 dbnuxm

Query results operations: [Print](#) [Copy to clipboard](#) [Export](#) [Display chart](#) [Create view](#)

Bookmark this SQL query: Label: ☐ Let every user access this bookmark [Bookmark this SQL query](#)

FEEDBACK FOR DONOR:

localhost/phpmyadmin/sql.php?server=1&db=donor&table=feedbackfordonor&pos=0

Server: 127.0.0.1 > Database: donor > Table: feedbackfordonor

Showing rows 0 - 1 (2 total, Query took 0.0016 seconds)

SELECT * FROM `feedbackfordonor`

Options: ☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

	id	firstname	lastname	Contactnumber	comments
<input type="checkbox"/>	1	KARTHIK	R	44	ADFLAFJASDFLSADKFJDSA,SDF
<input type="checkbox"/>	2	mahesh	babu	9849160679	vgbhjnm,vsbzm,xajmM

Query results operations: [Print](#) [Copy to clipboard](#) [Export](#) [Display chart](#) [Create view](#)

Bookmark this SQL query: Label: ☐ Let every user access this bookmark [Bookmark this SQL query](#)

ADVANTAGES

- ▶ Customers can get all blood donation information in this system instead of going and searching around for it.
- ▶ The system provides immediate details of blood available in the bank.
- ▶ The system is very useful as it immediately provides user about the availability of blood.
- ▶ The system also contains donor's details and information so that users don't have problem in searching for them.
- ▶ The system is very effective during emergency conditions.
- ▶ It saves their time and efforts.

APPLICATIONS

- ▶ The system can be used for any blood providing organization.
- ▶ It can also be used in hospitals to provide doctors about the blood availability details in hospital.