
USER MANUAL

for

Central Blood Bank Management System

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Landing Page

screenshots for landing page

description for all the buttons, or link for navigation

add all instructions that are required for the page

RaktArpan
Sign In
Register
Donate Blood
Look for Blood

Learn About Donation

After donating blood, the body works to replenish the blood loss.
This stimulates the production of new blood cells and in turn, helps in maintaining good health.

Donate Now

Compatible Blood Type Donors		
Blood Type	Donate Blood To	Receive Blood From
A+	A+ AB+	A+ A- O+ O-
O+	O+ A+ B+ AB+	O+ O-
B+	B+ AB+	B+ B- O+ O-
AB+	AB+	Everyone
A-	A+ A- AB+ AB-	A- O-
O-	Everyone	O-
B-	B+ B- AB+ AB-	B- O-
AB-	AB+ AB-	AB- A- B- O-

Types of donation

The human body contains five liters of blood, which is made of several useful components i.e. Whole blood, Platelet, and Plasma.

- Landing page has a **Navbar** containing various Buttons -:
 - **SignIn** - Navigate to signin page for Blood Bank.
 - **Register** - Navigate to the registration page of Blood Bank
 - **Donate Blood.**- For Blood Donors to search for Blood Camps.
 - **Look for Blood** - For Searching the Blood Components from all the blood banks.
- Click the **Donate Now** button to move to the page to search for Blood Camps.
- It also contains **Information** about different types of Blood Type which can donate blood to which blood type and also can take blood from which blood type.

Types of donation

The human body contains five liters of blood, which is made of several useful components i.e. **Whole blood, Platelet, and Plasma**. Each type of component has several medical uses and can be used for different medical treatments. your blood donation determines the best donation for you to make.

For **plasma** and **platelet** donation you must have donated whole blood in past two years.

Whole Blood

What is it?

Blood Collected straight from the donor after its donation usually separated into red blood cells, platelets, and plasma.

Who can donate?

You need to be 18-65 years old, weigh 45kg or more and be fit and healthy.

User For?

Stomach disease, kidney disease, childbirth, operations, blood loss, trauma, cancer, blood diseases, haemophilia, anemia, heart disease.

Lasts For?

Red cells can be stored for 42 days.

How long does it take?

15 minutes to donate.

How often can I donate?

Every 12 weeks

Plasma

What is it?

The straw-coloured liquid in which red blood cells, white blood cells, and platelets float in. Contains special nutrients which can be used to create 18 different type of medical products to treat many different medical conditions.

Who can donate?

You need to be 18-70 (men) or 20-70 (women) years old, weigh 50kg or more and must have given successful whole blood donation in last two years.

User For?

Immune system conditions, pregnancy (including anti-D injections), bleeding, shock, burns, muscle and nerve conditions, haemophilia, immunisations.

Lasts For?

Plasma can last up to one year when frozen.

How does it work?

We collect your blood, keep plasma and return rest to you by apheresis donation.

How long does it take?

15 minutes to donate.

How often can I donate?

Every 2-3 weeks.

Platelet

What is it?

The tiny 'plates' in blood that wedge together to help to clot and reduce bleeding. Always in high demand. Vital for people with low platelet count, like malaria and cancer patients.

Who can donate?

You need to be 18-70 years old (men), weigh 50kg or more and have given a successful plasma donation in the past 12 months

User For?

Cancer, blood diseases, haemophilia, anaemia, heart disease, stomach disease, kidney disease, childbirth, operations, blood loss, trauma, burns.

Lasts For?

Just five days..

How does it work?

We collect your blood, keep platelet and return rest to you by apheresis donation.

How long does it take?

45 minutes to donate.

How often can I donate?

Every 2 weeks

[Find Nearest Blood Bank To Donate](#)

- Lower page of the Landing page contains donation related information about different types of components like **Plasma, Platelets and whole blood**.
- These information are useful for donors to look for before donating the blood.
- **Find Nearest Blood Bank To Donate** - Click this button to navigate to the page to find nearest blood camp to donate the blood.

Blood Bank

Login

RaktArpan Sign Up Login

Blood Details Successfully Updated!

Login to use the Portal

username

Password

Login

Don't have an account? Sign up

- Log in using username and password.
- If the account doesn't exist, there is an option to sign up.

Signup

RaktArpan Sign Up Login

SIGN UP

Blood Bank Name

nikhil

Email ID

.....

Confirm Password (Min length: 6)

Address

Contact

State City Submit

- Bloodbanks can register on the portal using a Register button on the homescreen.
- Navbar has a button to move to the login page and clicking on RaktArpan takes the user to the home page.
- The SignUp screen has a form where the user has to fill the necessary details which are
 - Blood Bank Name
 - Username
 - Email-Id
 - Password and Confirm Password
 - Address
 - Contact
 - State and Up (Available options are manually added)
- Once the user has been registered, he or she can login using the credentials.

Dashboard

SNo.	Blood Type	Current Stock	Update Stock
1.	A+	0	<input type="text" value="0"/>
2.	A-	0	<input type="text" value="0"/>
3.	B+	0	<input type="text" value="0"/>
4.	B-	5	<input type="text" value="5"/>
5.	O+	0	<input type="text" value="0"/>
6.	O-	3	<input type="text" value="3"/>
7.	AB+	0	<input type="text" value="0"/>
8.	AB-	0	<input type="text" value="0"/>

- Once the blood bank is logged in, it lands on the dashboard.
- It has a **Navbar** containing the following Buttons -:
 - **Home** - Navigate to the dashboard.
 - **Profile** - Navigate to the Blood Bank's profile.
 - **Add Blood Camp** - For addition any Blood Camp events by the blood bank.
 - **Logout** - Logs the bank out and lands to the Landing Page.
- The dashboard contains current stock details of **RBC, Platelets, Plasma, CryoAHF and Granulocytes** for all the blood types.
- The Blood Bank can update these stock details by entering the new values in given textbox and clicking on '*Update Details*' button.
- Update stock takes only *numbers* as valid values.

Profile

The screenshot displays the 'View Profile' interface. The top navigation bar is red and contains 'Home', 'Profile', and 'Add Blood Camp' links. On the right, it shows a user icon and 'test1' with a 'Logout' button. The main content area has a red header 'View Profile'. Below this, the profile details are shown in a form with the following fields: Name (test1), User Name (test1), Email (test1@iitk.ac.in), Contact (1111111118), Address (test1), State (Goa), and City (Panaji). Below these fields is an 'Update Profile' button. At the bottom of the form, there is a 'Contact' field with the value '1111111118' and an 'Update' button.

- ❖ Blood bank also have the option to see and update the profile of the users.
- ❖ After landing on profile page, it shows followings fields of users
 - **Name:** It shows the name of the user.
 - **User Name:** It shows the username which may or may not be the same as the name which is used to login in the system.
 - **Email:** It shows the email of the user which was entered during signup.
 - **Contact:** It shows the contact of the user which was entered during signup.
 - **Address:** It shows the address of the user which was entered during signup.
 - **State:** It shows the state to which user belongs which was entered during signup.
 - **City:** It shows the city to which user belongs which was entered during signup.
- ❖ There is also an option to update the field like contact etc. Enter new contact and click on update. After clicking on update, updates start to show instantaneously.

Add Blood Camp

[Home](#) [Profile](#) [Add Blood Camp](#) test1 [Logout](#)

Blood Camp Form

Blood Bank Details

Blood Bank Name

test1

Contact

11111111118

State

Goa

City

Panaji

Address

test1

Camp details

Camp Name

Camp Name

Camp Organizer

Camp Organizer

Start Date

dd-mm-yyyy

End Date

dd-mm-yyyy

Start Time

--:--

End Time

--:--

Camp Location

Description

Submit Form

- Here, the blood camp organizers can add the blood camp details like blood bank name, contact and address details.
- Also, the details of the camp being organized have to added in camp details section along with it's description and motive.
- Google map location of the camp is required in the camp location subsection.
- Date is in dd-mm-yyyy and time is in hh:min format.

Blood Donor

Search Blood Camp

[RaktArpan](#) [Sign In](#) [Register](#) [Donate Blood](#) [Look for Blood](#)

State
UP

City
Lucknow

Search

S No.	Camp Name	Blood Bank Name	State	City	Dates	Time	Location	Organizer	Description
1	camp1	test1	Goa	Panaji	2022-04-05 - 2022-04-23	20:00 - 23:00	loc1	organizer1	desc1
2	camp2	test2	Assam	Jorhat	2022-04-08 - 2022-04-30	18:01 - 22:01	loc5	org2	desc5
3	camp3	test2	Assam	Jorhat	2022-04-01 - 2022-04-23	20:02 - 23:02	loc8	org1	desc5

- Here, the user can search for Blood Camps along with the details associated with the camps, like location, time of operation, a brief description and more which are added by Blood Bank.
- There are also drop down menus for selecting state and city that the user can choose from and filter the list of camps by clicking Search button after making the selections.

Blood Search

Search Blood Component

The screenshot shows the 'Blood Search' interface. At the top, a red navigation bar contains links: 'RaktArpan', 'Sign In', 'Register', 'Donate Blood', and 'Look for Blood'. Below this, there are four dropdown menus for filtering: 'State', 'City', 'Blood Group', and 'Blood Component'. A red 'Search' button is positioned below these filters. Underneath the button is a table with the following headers: 'S No.', 'Blood Bank Name', 'Address', 'Blood Component', and 'Blood Group and Quantity'. The table area is currently empty, showing only the header row.

- User can search the blood component here. Along with the blood component user can get the details like address, blood group and blood bank name.
- User can also use the filter like state, city, blood group and blood component and can get the list by clicking on the search button.