

EGERTON UNIVERSITY



FACULTY OF SCIENCE
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COMP 493 SYSTEM USER- MANUAL:

PROJECT TITLE:

ONLINE BLOOD BANK APP

SUPERVISOR:

MR ODONGO

*A project test plan submitted in partial fulfillment for the requirements of the award of a
Bachelor degree in Computer Science at Egerton University.*

28th/6/2017

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Introduction

This document was prepared by me for use by users of the Online Blood Bank App (**OBBA**)

The document is intended for all the user types specified in the system.

Home Page

New users of the system can navigate to (contact us) web link URL where they can get more information of our station route offices.

New users can also fill the contact form below where they can share their concerns about the blood donation

The screenshot shows the 'BloodDonor' web application interface. A red navigation bar at the top contains links for 'Home', 'What We Are', and 'Contact Us'. The 'Contact Us' link is highlighted. Below the navigation bar, the page is divided into three main sections. On the left is a Google Map showing the location of 'Ushirika Centre' in Limuru, with a blue callout box labeled 'Google map'. In the center is the 'Contact Form', which includes fields for 'Full Name*', 'Email*', and 'Phone*' (with a dropdown for country code), a 'Submit' button, and a note that 'All input fields must not start with a zero (0)'. A blue callout box labeled 'Contact Us URL' points to the 'Contact Us' link in the navigation bar. On the right is the 'Login form', which includes fields for 'Email' and 'Password', a 'Sign In' button, a 'Forgot Password?' link, and a 'Not Yet Registered? Create Account With Us' button. A blue callout box labeled 'Login form' points to the 'Sign In' button. Below the map, the 'Head Quarters' address is listed: 'Blood Bank LTD KIambu ROAD LIMURU, USHIRIKA CENTER, 3RD FLOOR, P.O BOX 699, NAIROBI, WEBSITE: Ooba.CO.KE, +254717978086'. The footer contains the text 'We are located at Ushirika Centre, Kiambu Road, Limuru Town', 'BloodDonor Copyright © 2017 BloodDonor. All rights reserved.', and social media icons for Twitter, Facebook, and LinkedIn.

Figure 1: Home Page – Contact Form

Log in.

Procedure

Users will have to input their email addresses used during the registration process and their password before clicking the log in button.

Email and password should be fed into email and password fields respectively

The screenshot shows a web browser at localhost/Don/login. The page has a red header with navigation links: Home, Why Donate Blood, Who We Are, and Contact Us. On the left, there's a 'Blood Donation Tips' section with text about diet and a list of tips: 'Low fat foods' and 'Iron rich foods'. Below this is a 'Beat the Myth' section stating that donating blood is safe and simple. In the center, there's a 'Made Request' table with two rows of data. To the right of the table is an image of a person's arm with a bandage and a thumbs-up gesture, with the text 'Be a Bloody Legend: Save Lives' below it. On the far right, there's a login form with 'Email' and 'Password' input fields, a 'Sign In' button, a 'Forgot Password?' link, and buttons for 'Not Yet Registered' and 'Create Account With Us'. Two blue callout boxes are present: one pointing to the email and password fields with the text 'Email and password input fields', and another pointing to the 'Forgot Password?' link with the text 'Forgot password link'.

Blood Group	Blood Type	Date Requested	Quantity Requested
AB+	Blood	2017-06-26 20:16:20	54
AB+	Blood	2017-06-26 20:16:20	54

Figure2: Log In Page

- ✓ A successful Log in will land the user in the Homepage Dashboard, which will vary slightly, depending on the user type (user levels)
- ✓ An unsuccessful log in will prompt the user to check his inputs and try again.
- ✓ A suspended user, once he tries to log in, or even if he/she was logged into the system prior to suspension, will be redirected to the suspension page.
- ✓ Users who have forgotten their passwords will be forced to input their email addresses in email input field where a password reset token id is sent to their respective registered mails.
- ✓ In case of a password mismatch, an error will be generated and user will be prompted of this error by a flash data
- ✓ On home page there is also a display of all made blood requests
- ✓ Below the sign in button, there is a button that instructs new users how to make account with us

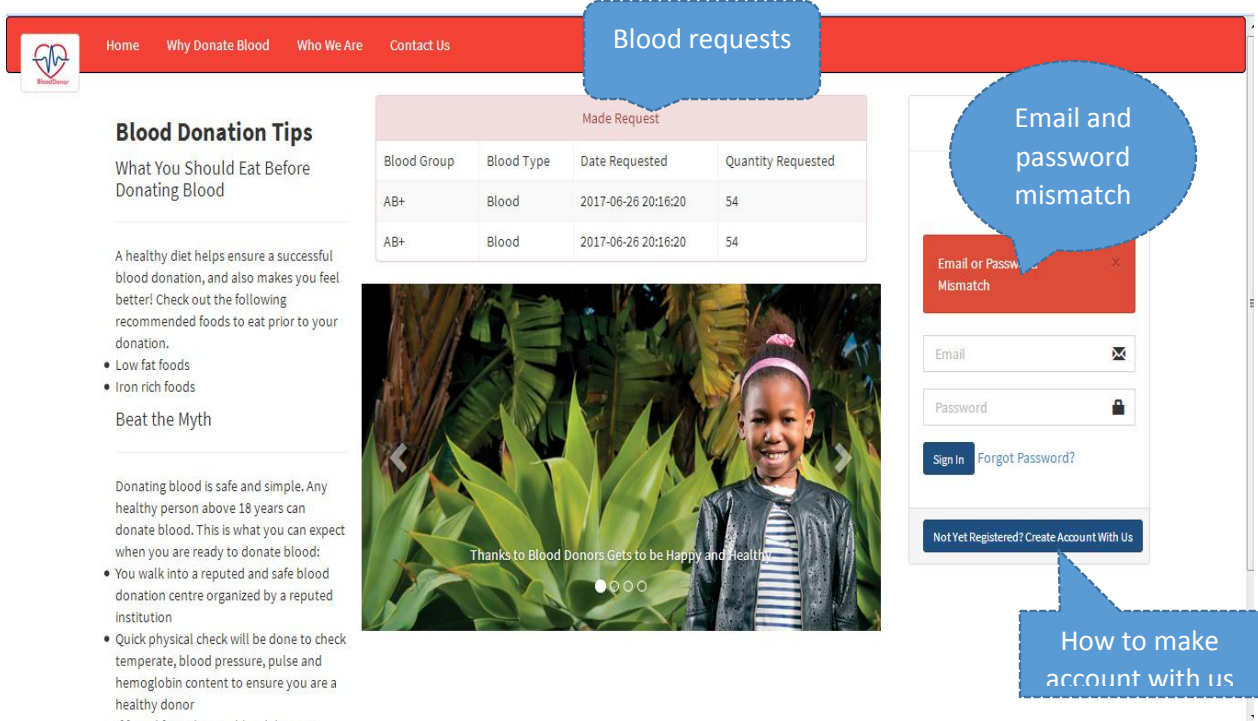


Figure3: Home Page – Login Form

Dashboard

A successful login will redirect a user to the below page.

The page will look slightly different depending on user type as will be shown.

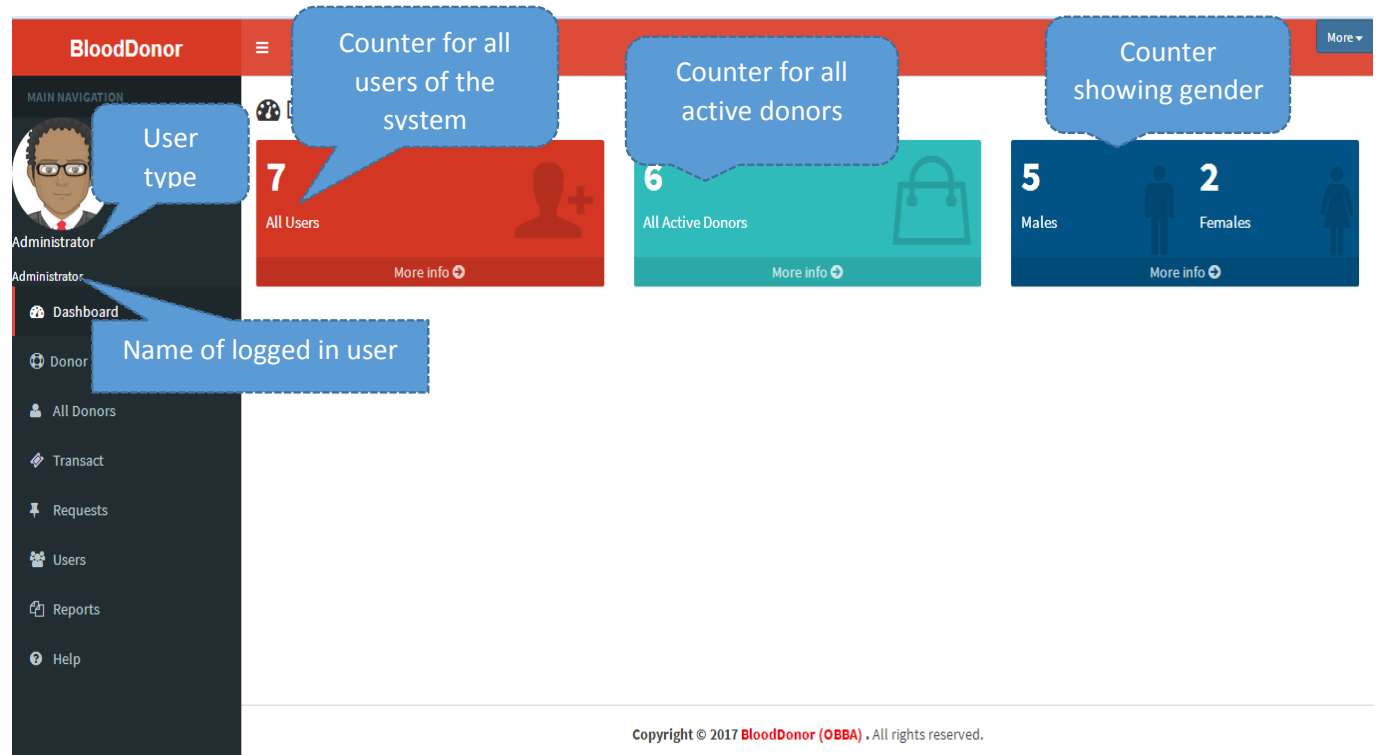


Figure 4: Admin Dashboard

From the above figures, we can denote that the dashboard is made up of three parts.

- ✓ The top bar – horizontally red with Save BloodDonor Logo (logo for OBBA-Online Blood Bank App) on the Left. Henceforth we shall refer to this as the NavBar
- ✓ The left panel – horizontally placed on the left side of the page, and has the user name and User type as its top. Henceforth we shall refer to this as the Panel
- ✓ The content area.

The NavBar

The NavBar will have links that mostly will be used to manage user account information.

Logic

If a link appears for a certain user type, that means he/she has the ability to perform tasks tied to that link.

Panel

The Panel will have management links, of which tasks can be performed upon.

These include;

Users

This will be used to manage users of the system. I.e. add users, edit users and view all the users currently using the system.

The screenshot shows the 'BloodDonor' system's 'Add User' interface. The browser address bar shows 'localhost/Don/addNew'. The interface has a red header with the 'BloodDonor' logo and a hamburger menu. A sidebar on the left contains navigation links: Dashboard, Donor, All Donors, Transact, Requests, Users, Reports, and Help. The main content area is titled 'User Management Add User' and contains a form titled 'Enter User Details'. The form has the following fields:

- Full Name (text input)
- Email address (text input)
- Mobile Number (text input with a dropdown for '--Code--')
- Gender (dropdown menu with '--Select Gender--')
- Weight Kgs (text input)
- Temperature (text input)
- Blood Pressure (text input)
- Blood Group (dropdown menu with '--Select Blood Group--')
- Date Of Birth (text input with placeholder 'DD/MM/YYYY')
- Password (text input)
- Confirm Password (text input)
- Role (dropdown menu with 'Select Role')

At the bottom of the form are 'Submit' and 'Reset' buttons. To the right of the form is a sidebar titled 'Admission Rules' with the following rules:

- All input fields must be filled
- All input fields **must not** have zero as first element
- Phone numbers start with the **second** digit, i.e 0717978086 to 717978086
- Users' role should be defined with caution
- Correct email address should be used as will be required during resetting of passwords
- All donors should be atleast **18yrs** and maximum of **55yrs** of age

Callouts highlight the 'Add new User Contact Form' and 'User admission rules'.

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Figure 5: Add Users Interface

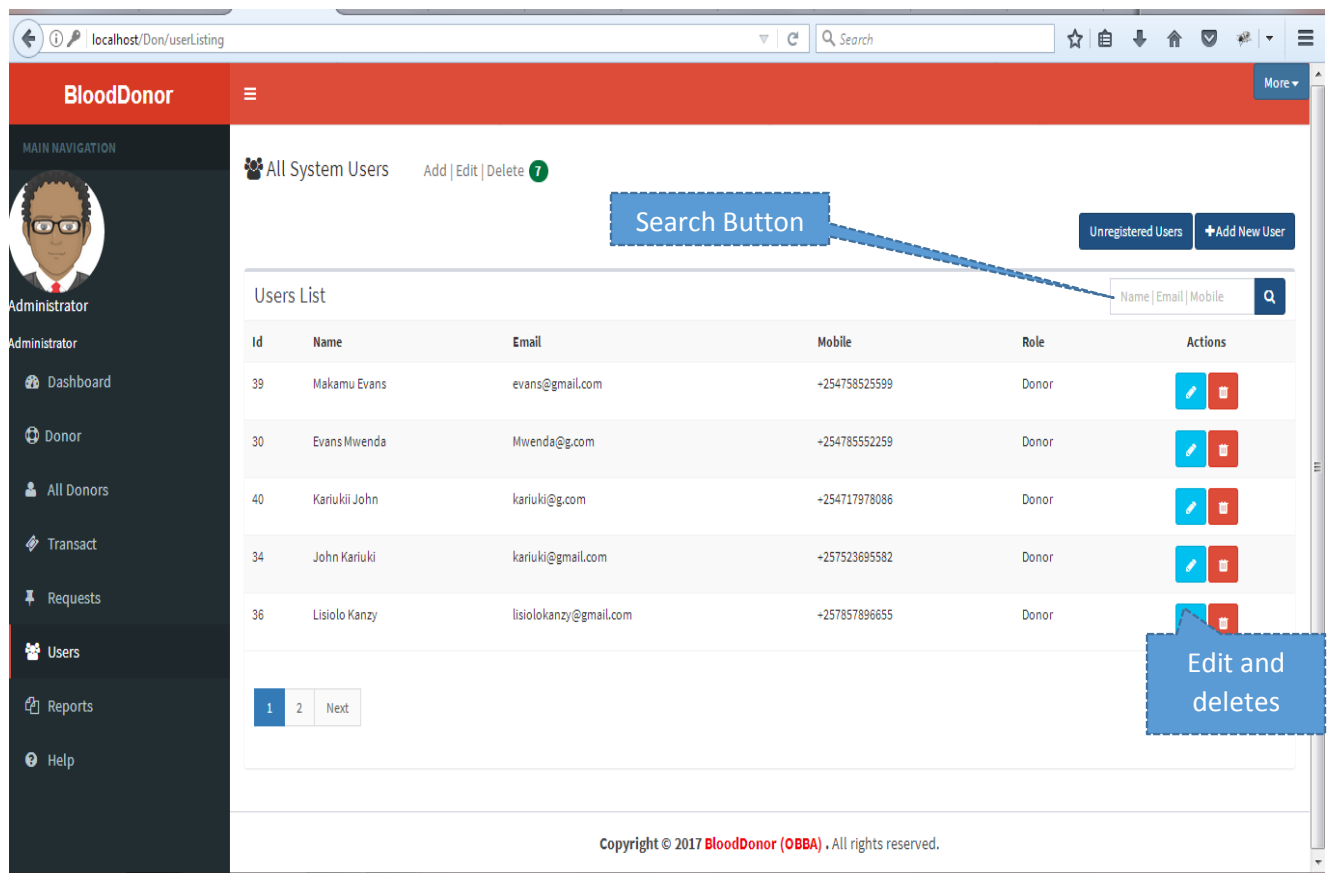


Figure 6: View Users and Edit Interface

Clients

This will be used to manage client information on the system. It will include adding new clients to the system, viewing registered clients and also editing client information on the system.

localhost/Don/loadChangePass

BloodDonor

MAIN NAVIGATION

Administrator

Administrator

Dashboard

Donor

All Donors

Transact

Requests

Users

Reports

Help

Change Password Set new Password for Your Account

Enter Details

Old Password

Old password

New Password

New password

Confirm New Password

Confirm new password

Submit Reset

Change password rules

- Enter the Old Password in Old Password text field
- Second Enter your desired New Password
- Thirdly Confirm your new Password
- Finally do submission

localhost/Don/

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Figure 7: Change Password Interface

Donation Process

This is a major link of the system

It does consist of two forms, that is, Potential donors and next probable donors

Once the button donate is triggered, the status of donor changes to be next probable donors until expiration of frequency of days set on donation of a particular blood type, e.g

Plasma is set for 28 days, platelets is set 7 days

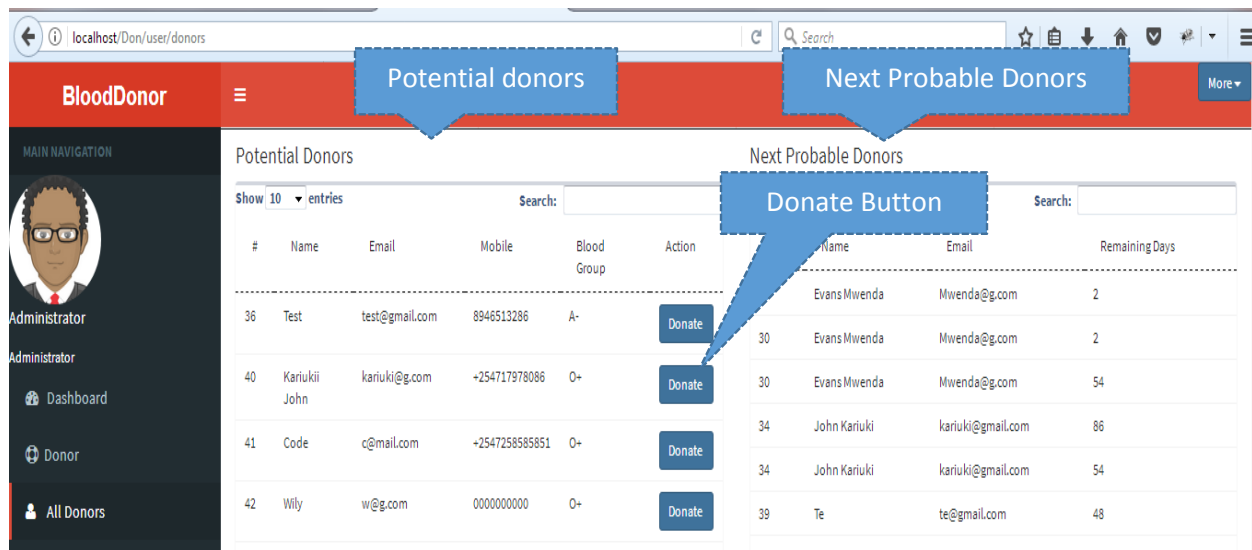


Figure 8: Donation Process

Transaction Process

This module facilitates giving out of amounts collected from various donors to registered hospitals with this blood bank.

Unregistered hospitals can also be incorporated into the system by feeding name and location of the hospital.

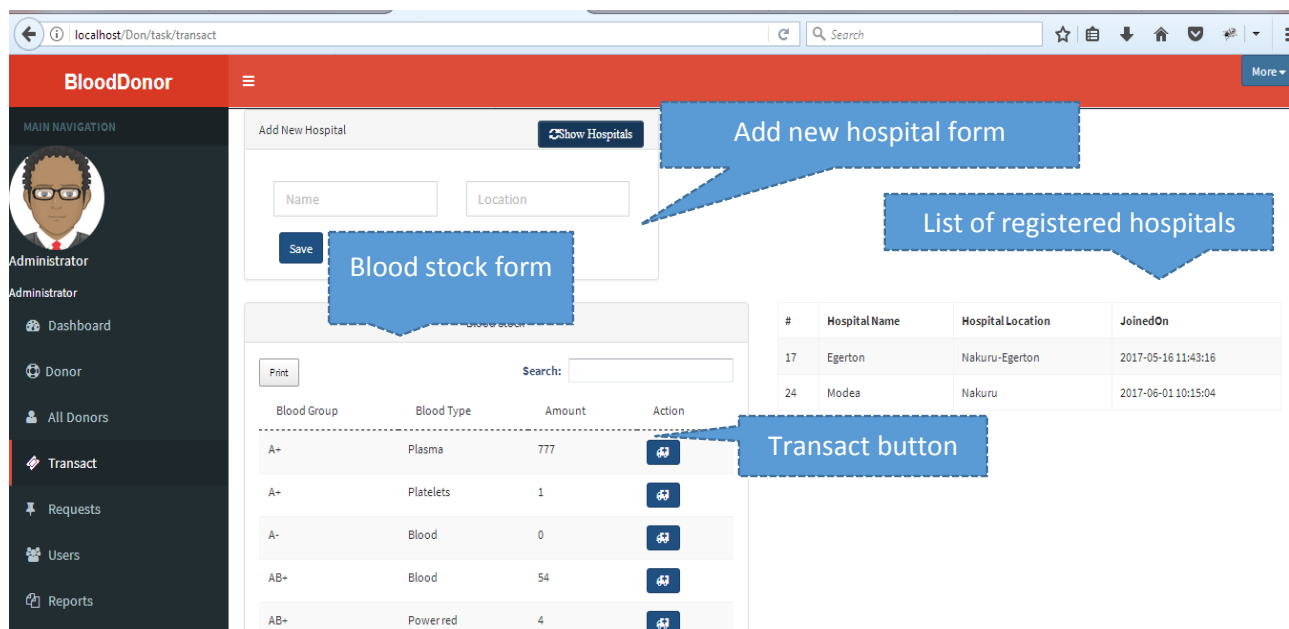


Figure9: Transaction processing

Requests Processing

This module facilitates making requests to both registered and unregistered potential blood donors.

Requests are made through SMS where blood donors are requested to make donations of a particular blood group and blood type.

The screenshot displays the BloodDonor web application interface. The left sidebar shows the user is an Administrator. The main content area is divided into two sections: 'Make Requests' and 'Made Requests Responses'.

Make Requests Form: This form allows users to create new requests. It includes fields for 'Blood Group' (set to O+), 'Blood' type, and 'Quantity requested'. A 'Request' button is at the bottom.

Made Requests Responses Table: This table shows the responses to requests made. It has columns for '#', 'Blood Group', 'Message', and 'Response Date'.

#	Blood Group	Message	Response Date
47	AB-	json	2017-06-25 15:38:41
47	AB-	0	2017-06-24 20:13:23
47	AB-	0	2017-06-24 20:13:23
47	AB-	n	2017-06-24 20:16:20

Show Made Requests Table: This table shows the details of requests made. It has columns for '#', 'Blood Group', 'Blood Type', 'Date Requested', 'Quantity Requested', and 'Action'.

#	Blood Group	Blood Type	Date Requested	Quantity Requested	Action
233	AB+	Blood	2017-06-26 20:16:20	54	[Delete]
234	AB+	Blood	2017-06-26 20:16:20	54	[Delete]

Annotations in the image point to the 'Blood request form', 'Made responses', 'Made requests form', and 'Delete request button'.

Figure10: Request processing

Reports

This module consists of both donation reports and transaction reports

Reports can be printed as a single row, that is, for a specific user or printed according to filter raised by user of system, for example it can be on basis of blood types, next safe donation, donation dates or users ids

The screenshot displays the BloodDonor web application interface. The top header is red with the 'BloodDonor' logo and a search bar. The left sidebar contains navigation links: Dashboard, Donor, All Donors, Transact, Requests, Users, Reports (highlighted), and Help. The main content area is divided into two sections: 'Donation Reports' and 'Transaction Reports'. Both sections have a 'Print' button and a 'Search' input field. The 'Donation Reports' table shows three entries with columns for ID, Blood Type, Donation Date, and Next Safe Donation. The 'Transaction Reports' table shows six entries with columns for ID, Hospital name, Blood Group, Blood Type, Amount, and Date. A 'More' button is located in the top right corner of the main content area.

Donation Reports

#	Blood Type	Donation Date	Next Safe Donation
61	Plasma	2017-06-02	2017-06-30
63	Power red	2017-06-02	2017-09-22
64	Plasma	2017-06-02	2017-06-30

Showing 1 to 3 of 3 entries

Transaction Reports

#	Hospital name	Blood Group	Blood Type	Amount	Date
10	Egerton	Blood	A-	21	2017-06-25
11	Egerton	Blood	O+	65	2017-06-25
12	Egerton	Plasma	A+	7	2017-06-25
13	Egerton	Platelets	B+	2	2017-06-25
14	Egerton	Plasma	B+	2	2017-06-25
15	Egerton	Power red	AB+	50	2017-06-26

Showing 1 to 6 of 6 entries

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Figure11: Reports

User manual

This incorporates a help module to user of a system according to user type.

It enhances and facilitates easier use of this web application

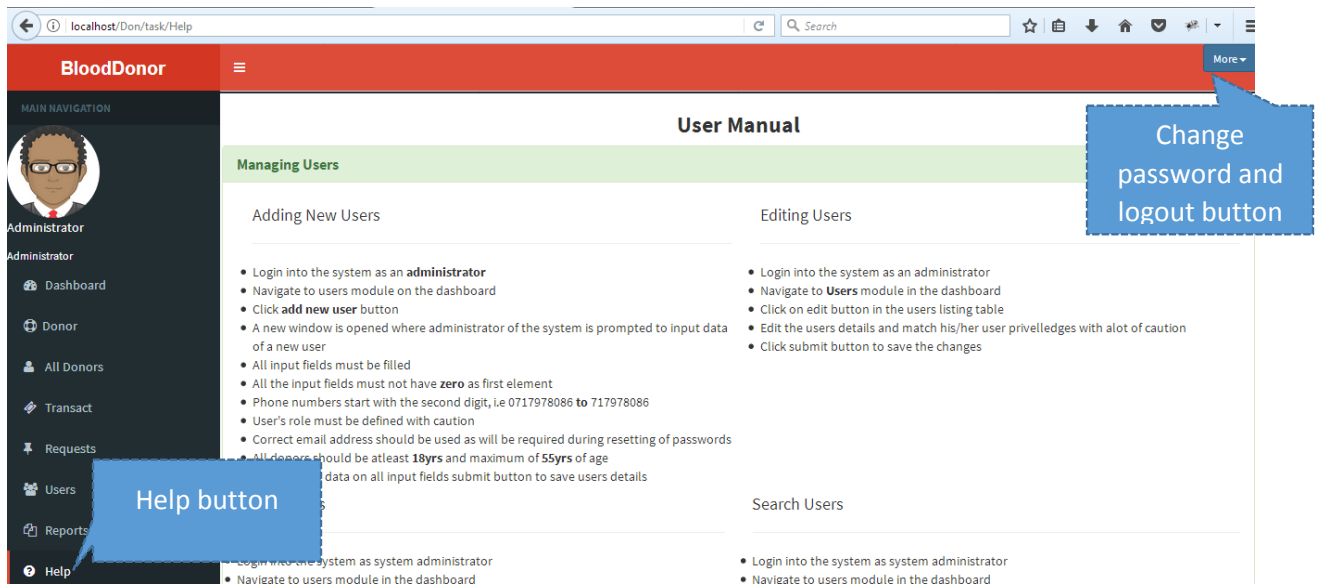


Figure 12: help module