

APPENDIX A: User Guide

Blood Bank

The first step for a user to access the system is to Log in. The user need to be registered with a username and a password. After typing the correct information, the user will press Log in button. The button Exit exits the system. The login is the same for hospital and blood centre users.

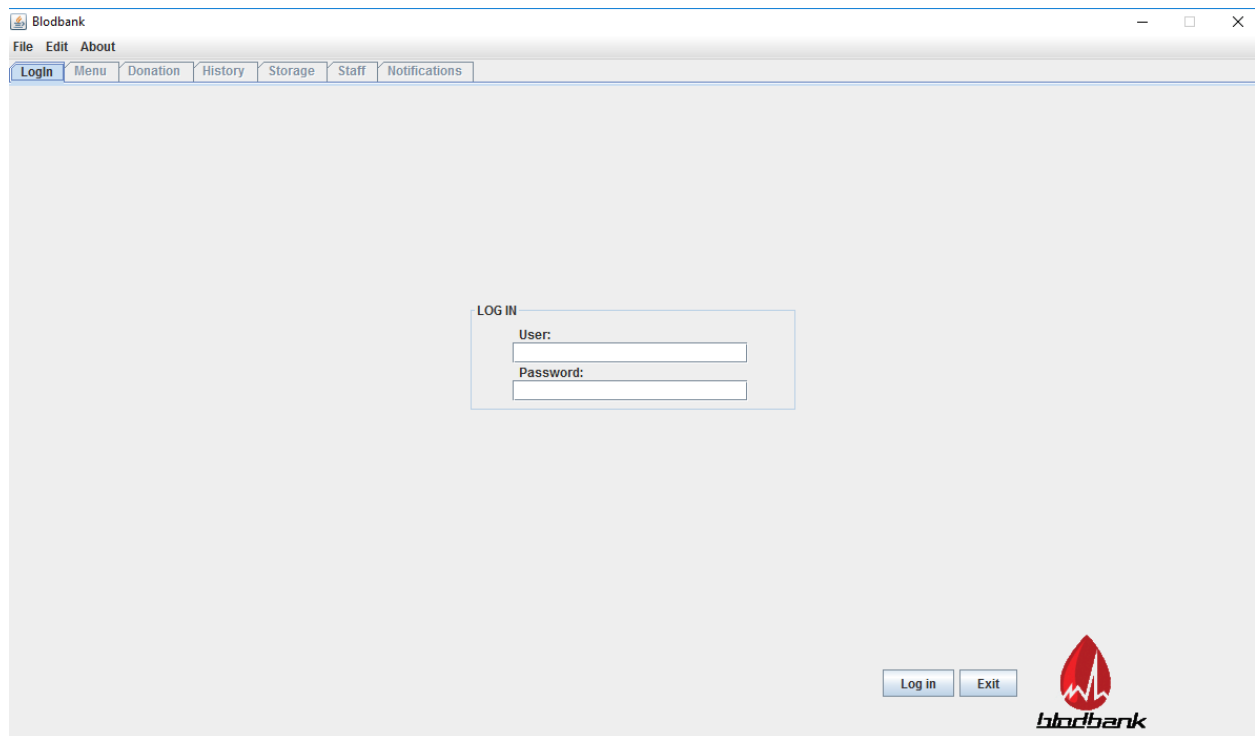


Figure 1 - Log in for the blood bank staff

The Menu panel displays the options that the user has. The user in the blood bank can chose from Donation, History, Storage, Staff and Notification by clicking on. The Log out button will logout the user from the system.

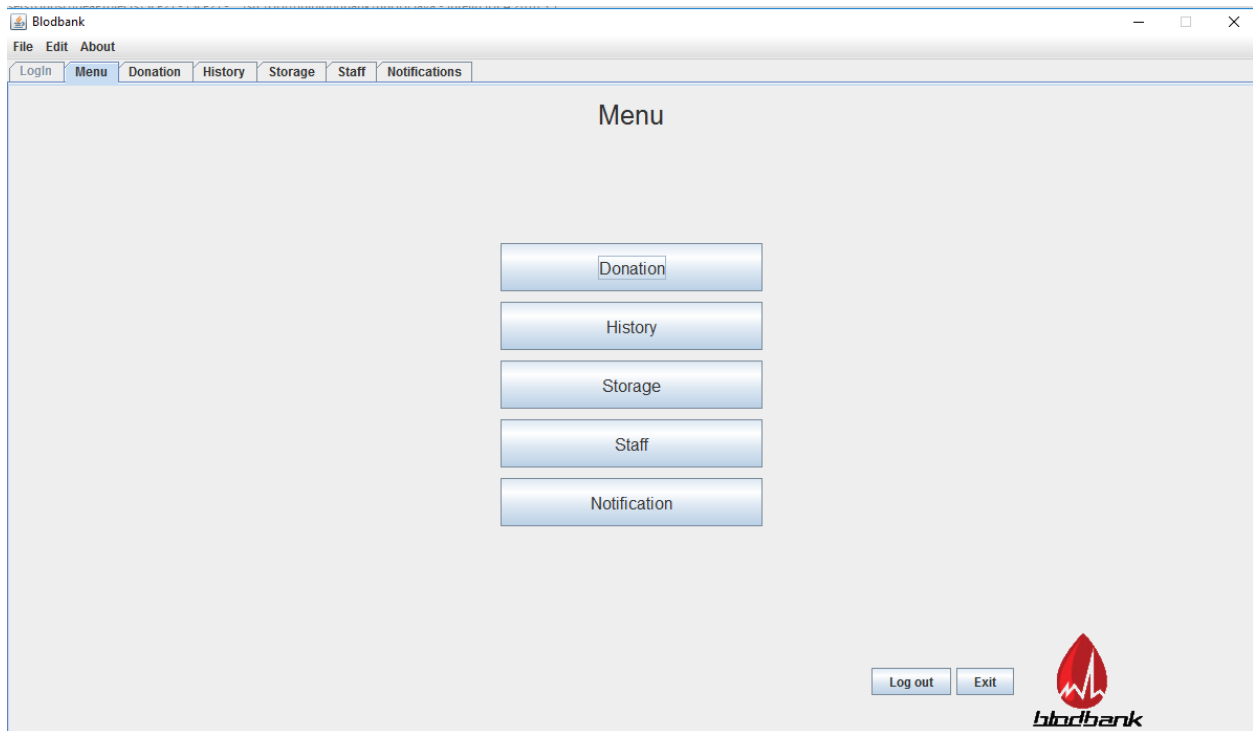


Figure 2 - Blood bank menu

The Donation panel allows the user to add a new donor or register a new donation from an already existing donor. For a new donor the user needs to type all the information: First name, Last name, Cpr number, Age, Address, Phone number, Email address, Blood type, Blood centre where the donation is made. The ID field is auto generated and will appear at the press of the Donate button.

If the donor it is already registered from a previous donation, the user can type either the ID or the Cpr number and all the information of the donor will be completed automatically. When the donate button is pressed the donor and blood information are saved.

The screenshot shows a web application window titled "Blodbank" with a menu bar (File, Edit, About) and a sub-menu bar (Login, Menu, Donation, History, Storage, Staff, Notifications). The main content area is titled "Donate now" and contains two radio buttons: "New user" (selected) and "Already existent".

New donor form:

- First name: [text input]
- Last name: [text input]
- CPR: [text input]
- Age: [text input]
- Address: [text input]
- Phone: [text input]
- Email: [text input]
- Blood type: [text input]
- Blood center: [dropdown menu with "Horsens" selected]
- Date: 15/12/2016
- ID: [text input]

Already existent form:

- ☐ ID: [text input]
- ☐ CPR: [text input]
- First name: [text input]
- Last name: [text input]
- Age: [text input]
- Address: [text input]
- Phone: [text input]
- Email: [text input]
- Blood type: [text input]
- Blood center: [text input]
- Date: 15/12/2016

At the bottom right, there are "Donate" and "Exit" buttons, and the "blodbank" logo.

Figure 3 - Making a donation

The History search panel allows the user to find a donor by either the ID or the CPR number. By pressing the Search button, the user will see the information for the desired donor. Show all history button will show a list with all the donors. The Exit button exits the program.

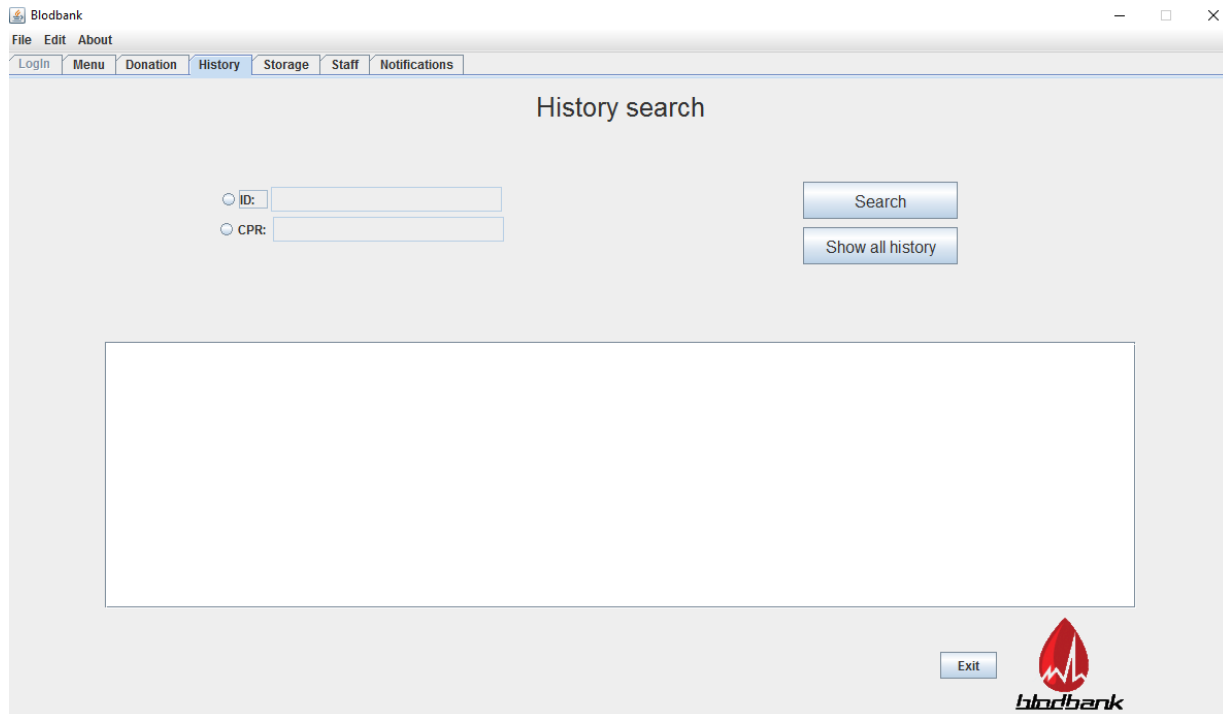


Figure 4 - Donor history

The blood storage panel allows the user to search blood by blood types: O+, O-, A+, A-, B+, B-, AB+, AB- or check all the available blood from the storage by choosing All blood types. When the blood is sent from the blood centre, the user can also Select and Remove it from blood banks storage.

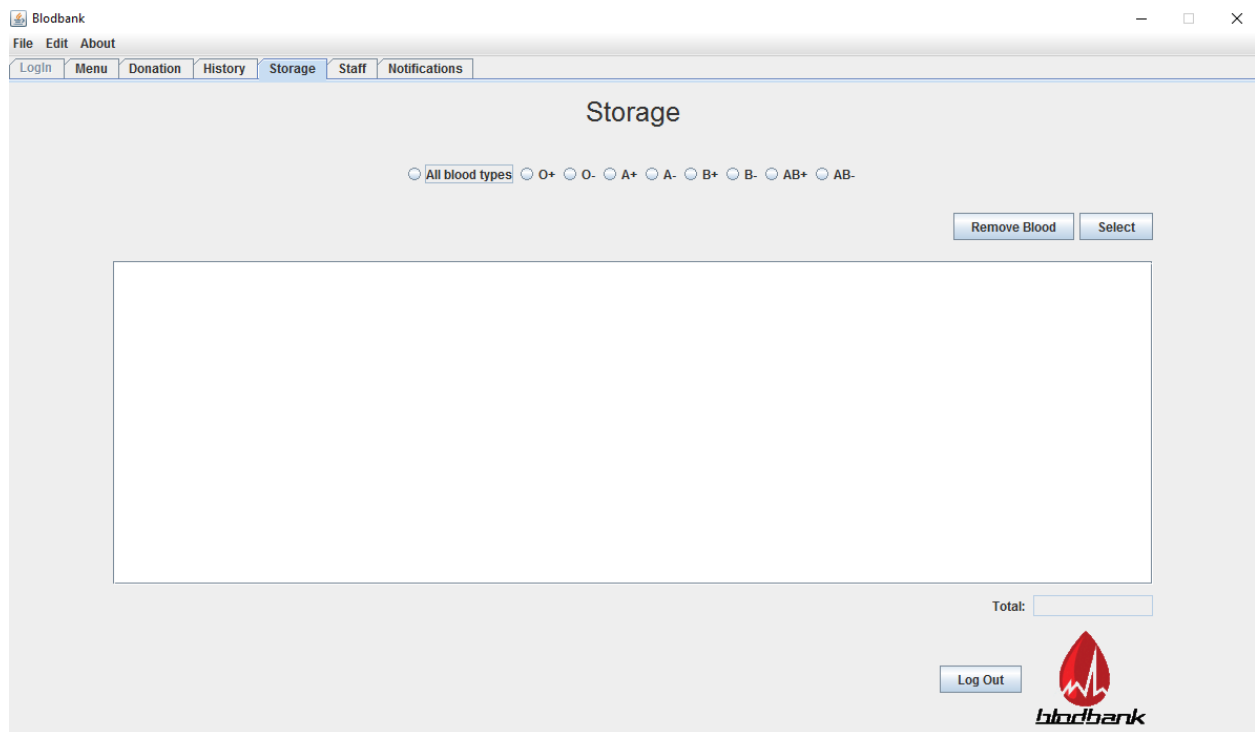
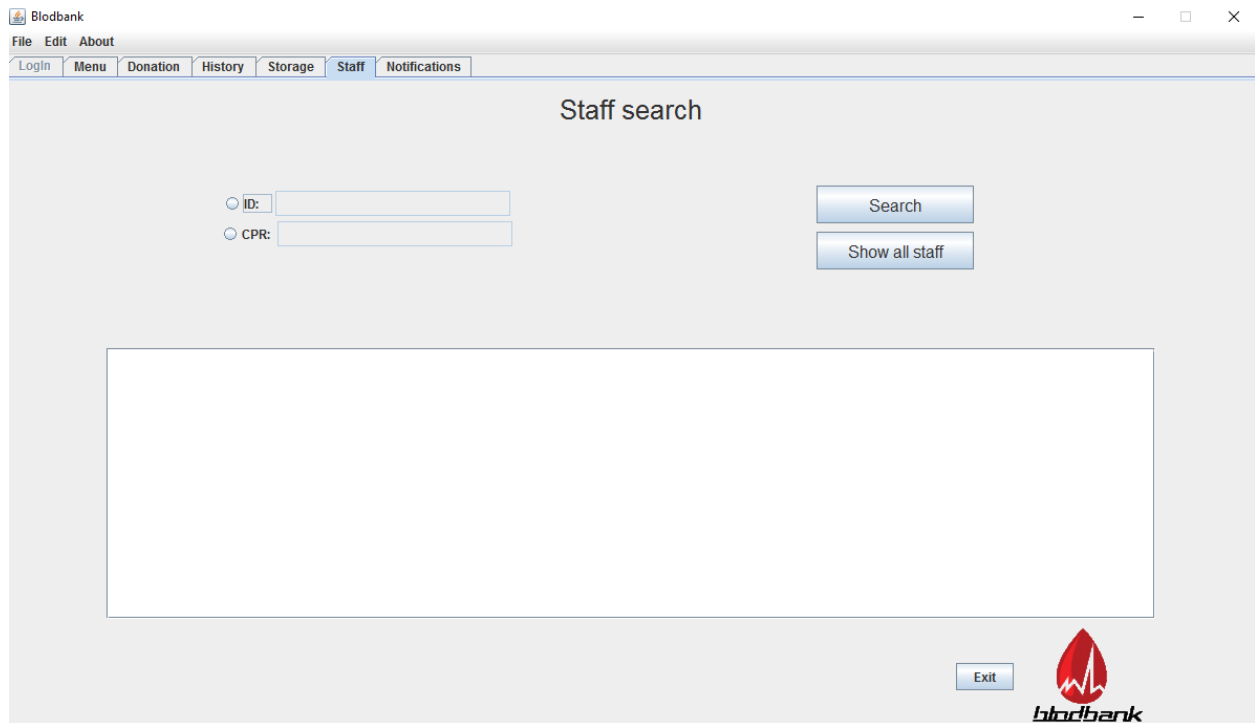


Figure 5 - Blood storage in the blood bank

The Staff search panel allows the user to search staff members by ID or by Cpr number. The button: Show all staff will display a list off all the staff members. The staff search is the same for hospital and blood centre users.



The screenshot shows a web application window titled "Blodbank". The menu bar includes "File", "Edit", and "About". Below the menu bar, there are tabs for "Login", "Menu", "Donation", "History", "Storage", "Staff", and "Notifications". The "Staff" tab is currently selected. The main content area is titled "Staff search". It contains two radio buttons: "ID:" and "CPR:". Each radio button is followed by a text input field. To the right of these input fields are two buttons: "Search" and "Show all staff". Below these elements is a large, empty rectangular box, likely intended for displaying search results. In the bottom right corner of the window, there is an "Exit" button and the "blodbank" logo, which consists of a red stylized flame or drop shape above the word "blodbank" in a bold, lowercase font.

Figure 6 - Search blood bank staff

The Notification panel displays the notifications received from the hospital. If the user wants to see information about blood requests he chooses Requests. For seeing the full message, the user has to press the Select button, then choose the wanted message and press Show Message. After the user read the message he can check if the requested blood is in the storage, and if it is Send the blood to the hospital. If the user chooses to see updates for the used blood he will check Notification button.

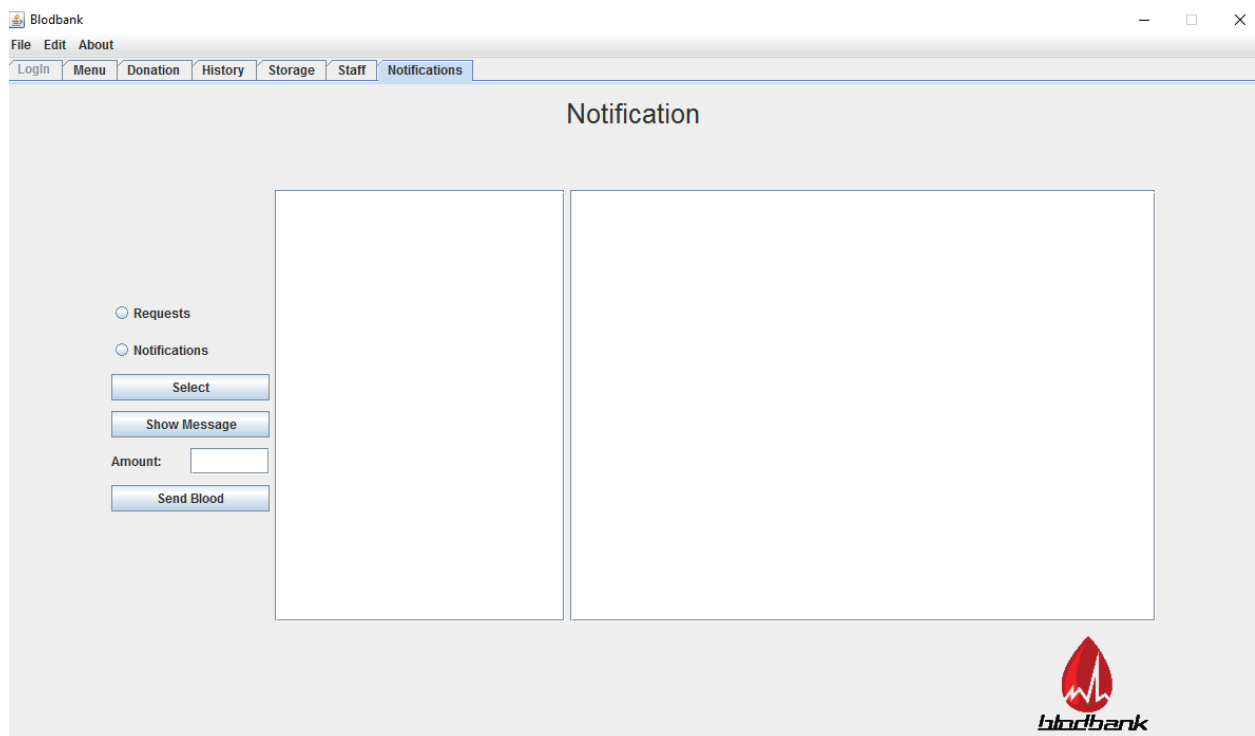


Figure 7 - Notification panel

Hospital

The Storage panel from the hospital allows the user to Withdraw blood and Request blood from the blood centre. For withdrawing blood, the user needs to click Select button, choose the blood bag that was used (check the Id) and then press Withdraw blood. The blood centre will receive a message that the selected blood was used.

For making a blood Request the user needs to press the Select button choose the wanted blood type and type the amount. After pressing the Request button the blood centre will receive a message with the blood request.

The Total field is not editable and it shows the amount of blood that is available in the storage.

The screenshot shows a web application window titled "Hospital" with a menu bar (File, Edit, About) and tabs (Login, Storage, Staff). The "Storage" tab is active, displaying a form titled "Storage". On the left, there is a list of radio buttons for blood types: "All blood types", "O+", "O-", "A+", "A-", "B+", "B-", "AB+", and "AB-". In the center, there are two buttons: "Select" and "Withdraw Blood". On the right, there is a section labeled "Amount:" with a text input field and a "Request" button. Below the "Select" button is a large empty rectangular box. At the bottom right, there is a "Total:" label with a text input field, a "Log Out" button, and a logo for "sygehus" featuring a red cross and a heartbeat line.

Figure 8 - Hospital's blood storage