

**Apollo Blood Donating System**

High Level Design

**Document Control :**

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**1.INTRODUCTION**

**1.1 Project Purpose**

The Apollo Blood Donating project that helps to create an information about the donor to donating the blood. Through this application any person who is interested in donating the blood can register himself. Moreover, if any receiver wants to make request blood online, he can also take help of this site. Admin is the main authority who can do addition, deletion and modification if required.

**1.2 Intended Audience**

There is no particular audience set for this project Admin can login and modify the details of donor or receiver.

**1.3 Key Project Objective**

a. Admin can maintain the total database

b. Allow donor/receiver to register

b. Display donor details

c. Donor donating blood

d. Modify/Update the donor details

**1.4 Project Scope and Limitations**

**1.4.1: Scope:** This project aims to create the development of an Donor Donating

system which takes the donor information such as Name, age, gender, contact

details, type of the blood group donated.

 It also provides the support to add the new donor’s information.

 It also provides the support to modify/update the donor’s information.

**1.4.2: Limitations:**

* End users will not be able to get the information about the availability of the blood in the bank of which he/she donated.
* Only the admin has all rights to edit the things in the End users profile.

**1.5 Functional Overview**

1.5.1 Following Header files are included in the program

1. #include<stdio.h>
2. #include<stdlib.h>
3. #include<string.h>
4. #include<struct.h>
5. #include<macros.h>
6. #include<functions.h>

1.5.2 Following Functions included in the program

**1.main( ) :** This is the first main function that provides the flexibility about the system.

**2. menu( ) :** This is the function to go for admin menu or to go for the registration.

**3. admin( ) :** The admin can enter by giving the username and the password. By giving the proper details the Admin can login successfully.

**4.menu\_admin( ) :** This function is for admin to go for donor, receiver, donate and to exit.

**5.registration( ) :** If the person is new to the system the person has to be registered.

 If the person is donor Press 1 for donor registration.

 If the person is receiver Press 2 for receiver registration.

**6. donor\_reg( ) :** This function is used for donor’s registration.

The donor should register by giving the Aadhar number, name, age, blood group, phone number.

**7. receiver\_reg( ) :** This function is used for receiver’s registration.

The receiver should register by giving the Aadhar number, name, age, blood group, phone number.

**8.donor( ) :** This function is used to delete, update, view the donor’s information.

Enter your choice

1. Delete donor

2.Update donor

3.View donor

4.Go back to main menu

**9. del\_donor( ) :** This function is used to delete the donor’s information.

By entering the Aadhar Number the specified Aadhar Number person’s details will be deleted successfully.

**10.update\_donor( ) :** This function is used to update the donor’s information. By entering the Aadhar number the specified Aadhar Number person’s details like donor name, age, contact number, gender.

**11.view\_donors( ) :** This function is used to view the donor’s information.

The Aadhar number, name, age, blood group, phone number of all the donor’s can be viewed.

**12. receiver( ) :** This function is used to view the receiver’s information.

Enter your choice

1. Delete receiver

2. Update receiver

3. View receiver

4. Search

5. Go back to main menu.

**13.del\_receiver( ) :** This function is used to delete the receiver’s information. By entering the Aadhar Number the specified Aadhar number receiver details will be deleted.

**14.update\_receiver( ) :** This function is used to update the receiver’s information. By entering the Aadhar Number the specified Aadhar number details like name, age, contact number can be updated.

**15.view\_receiver( ) :** This function is used to view the receiver’s information. By entering the Aadhar Number the specified Aadhar number person’s details can be viewed.

**16.records() :** This function is used to record for the particular blood group availability.

**17. search();**This function is used to search for the particular blood group

and the number of units.

**2.DESIGN OVERVIEW**

|  |  |
| --- | --- |
| Name of the Module | Admin |
| Handled by | Roja Sri, M.Divya |
| Description | Admin can maintain the database of donor and receiver. |

Apollo Blood Donation Comprises of following modules

|  |  |
| --- | --- |
| Name of the Module | Donor |
| Handled by | Ramya,Divya Veeranki |
| Description | Edit the data  View the data  Delete the data  Database of donar will be handled by admin. |

|  |  |
| --- | --- |
| Name of the Module | Receiver |
| Handled by | Hamsa Priya, Roja sri |
| Description | Edit the data  View the data  Delete the data  Database of receiver will be handled by admin |

**2.1 Design Objective**

* + Admin Database
  + Donor and receiver Registration
  + Donor and Receiver can update/delete their details
  + Donor donate the blood

**2.2 Design Alternative**

Apollo Blood Donation System consists of admin database which contain details donor and receiver. Admin can add the details of donor and receiver. Donor and receiver can delete or edit their details.

**2.3 User Interface Paradigm**

Apollo Blood Donation System application give access to admin to login with a user name and password. The details of donor and receiver stored in the files.

Admin is given an interface to register a donor or receiver. After registration donor can donate the blood and receiver can receive the blood. Aadhar number of donor and receiver can never be match.

**2.4 Error Detection / Exception Handling**

The admin has to login with valid login details, otherwise they will get invalid username. After logging the admin, the donor or receiver can update/delete their details.

**2.5 Performance**

The system will work on Admin. The admin will maintain the total database of donor and receiver.

**2.6 Maintenance**

Apollo Blood Donation System list the availability of blood bags at any given time. Ability to manage the information of its blood donor. Alerts for blood requirement from registered donors. Auto-check if the person donated blood in the last 3 months. Allows good documentation about the donor and their blood donation activities. Support fast searching to find match blood bags for the right person

**3.Environment Description**

**3.1 Time Zone Support:** IST

**3.2 Language Support:** English

**3.3 User Desktop Requirements:**

a. 64-bit processor, 1 GHz or faster

b. At least 2 GB free hard drive space

c. At least 1 GB RAM

**3.4 Server-Side Requirements:**

a. 64-bit processor, 1 GHz or faster

b. At least 1 GB free hard drive space

c. At least 1GB RAM

**3.4.1 Deployment Considerations:**

System is easy to deploy.

**3.4.2 Integration Requirements:**

1. Language: C

2. Tools: Valgrind, Makefile, Splint

3. Complier: gcc, vi editor

4. Linux

**3.4.3 Jobs:**

We can establish connections between donors, receivers and admin who are connected to the Apollo Blood Donating System.

**3.4.4 Network:** End to End

**3.5 Configuration:**

**3.5.1: Operating System**: Linux