Blood Donation Bank

* Tirth Jivani (AU1741032)
* Arjun Barasara (AU1741053)
* Deep Gojariya (AU1741061)
* Brief Description :-

We have used linked list queue and linked list priority queue Data structure to implement our project. Project of blood donation bank preserve Donor list. We have used File handling to save donor’s data like Name, Age, Blood group, Quantity into file. Our program searches blood group availability through blood donor’s list if is available or not, if it is not available we have implemented more linked list queue to store this type of patient’s data whose required blood was not available. If it was available then patient would get blood in Queue. We have also implemented priority queue if some emergency happens or there were some reason then that person gets first chance to get blood. We have also kept the information of all different types of blood in file. The third queue is like waiting area queue. In comparison of both the queue third linked list queue will get higher priority.

We have done all this implementation on **GUI.**

* List of Data Structure to be used with logical design :-
* Linked list Queue:-

A queue data structure can be implemented using linkedlist data structure. The queue which is implemented using linkedlist can work for unlimited number of values. That means, queue using linkedlist can work for variable size of data.

* Linked list Priority Queue:-

A linked list queue gives the priority to queue implementation.

* Operation to be performed on each data structure
* Insertion as Donor List and blood data
* List or print all the Donor list
* Features of Blood Donation bank :-
* It can be implemented everywhere.
* Display all the donor’s list with all his/her details.
* Display list of all person data of his/her requests.
* This Application supports multiple user.
* User can send the request for checking his requirement(requirement of blood).
* We have used GUI, which will help user to implement program on Internet.
* List of programs :-
* List of Files :-
* Application.java
* BloodData.java
* Donor.java
* HeadNode.java
* LinkedList.java
* Node.java
* Patient.java
* FrmFirst.java
* FrmFourth.java
* FrmSecond.java
* FrmThird.java