**Blood Bank**

**Brief Idea of Existing System and Proposed System**

**Existing system**

Currently there are 3 types of existing systems

* Manual system
* Web based
* Mobile application

**Manual system:**

In the existing manual system the intended donor has to go to a nearby hospital/ blood bank to donate blood for which he gets a donor card that contains the count of the times that he has donated blood, so that he can use/transfer it to others who are in need but the only constraint is the validity of the blood to receive back if need is one year. on such type of transaction is they have to use it within one year of his donation else it will be lapsed. And another restraint is that if blood is not available in the nearby banks in case of an emergency, nothing can be done to meet the immediate need.

**Web Based:**

In this system the use who is need of blood have to login to the respective website and search for the specific blood for different blood banks.

The drawback is that the blood bank may be too far from the user and he may have to pay money for the blood.

**Mobile based:**

An application “Blood Bank” created by “B corp” allows user to register themselves to donate blood, they would have to store the name of the city and the pin code of the area that they reside at, what this application lacks is that the data stored is static and won’t be updated along with the movement of the donor.

Another blood bank app created by Indian Red Cross society (IRCS) allows user to store blood in an actual blood bank and transfer it to other people at the click of a button or to withdraw blood themselves. And the user can only withdraw the exact amount of blood that he has donated. In case of this application, although the domain is same the way the solution is implemented differs and again **i**nvolves storage of blood in blood bank. And the application does not use location specific search.

**Proposed system:**

The proposed system is an application that that solves the problems of the existing system that are highlighted above. The system will be better than the manual system as the user can search for donors in his immediate vicinity. This increases the chances of finding a donor. And hence increases the chances of survivability of the patient. Also, blood is never stored at a bank hence the chances that blood is wasted is less.

The proposed system will allow a person in need to check for the location of the donors. This is a dynamic process as this provides the user with a list of compatible donors who are nearest to him. This is the feature that is lacking in both the existing systems.