**User Stories**

**Donor Registration:**

As a donor I would like to register myself as a donor so that all of my information with medical reports are added to the database and whenever needed, the blood bank can check my reports and call me easily.

* Input the first name and last name.
* Input the email id.
* Input a password (at least 6 characters).
* Input address and phone number.
* Input the image of medical reports (png/jpg).
* Verify via sending code to mail address.

**Patient Registration:**

As a patient I would like to register myself as a patient so that all of my information with medical reports are added to the database. So whenever I will need blood, my information are available for further procedures and also I can check my reports, bills etc.

* Input the first name and last name.
* Input the email id.
* Input a password (at least 6 characters).
* Input address and phone number.
* Input the image of medical reports (png/jpg).
* Verify via sending code to mail address.

**Donor login:**

As a donor I would like to login to my account so that I can see all my previous donations and future donation dates.

* Verify that I enter the right username and password.
* Verify that one time pad (OTP) is generated each time during login.
* Verify that the same device is used for login.
* Verify that if wrong password or username is given for three times then the account is suspended for further verification.
* Verify that if the login location is same or not.
* Verify that if the person is logged in after a long time, then a confirmation mail will be sent.

**Patient login:**

As a patient I would like to login to my account so that I can see all my previous blood purchase bills, blood reports and available donor near me.

* Verify that I enter the right username and password.
* Verify that one time pad (OTP) is generated each time during login.
* Verify that the same device is used for login.
* Verify that if wrong password or username is given for three times then the account is suspended for further verification.
* Verify that if the login location is same or not.
* Verify that if the person is logged in after a long time, then a confirmation mail will be sent.

**Blood cross match and Report generation:**

As a patient, I would prefer to have cross match test before blood transfusion to check for harmful interactions to blood materials in patient’s body so that could learn if patient is compatible with donor’s blood. After that a medical report is given which can be downloaded and printed or received by own.

* Both patient and donor must be registered and verified.
* Patient’s and Donor's blood sample in the disposable syringe is taken.
* Some particular tests are being done for cross match by doctor.
* The result of the crosshatch will be for example no cell clumping or hemolysis should be seen, no agglutination should be observed and so on.
* The system makes sure the blood cross matching is done and it is safe for transfusion.
* Both must wait until the test report comes.
* No blood transfusion is done if there is some unusual in report.
* No test will be done for unregistered donor, patient.

**Periodic subscription for blood:**

As a customer, I would like to have a feature called Subscription for blood which is actually an arrangement for providing or receiving blood transfusion service in a continuing or periodic nature for the users who need blood frequently for example patients of anemia, sickle cell disease, hemophilia, cancer, or kidney disease so that user gets rid of the hassle of searching blood routinely.

* User must be registered and verified.
* User have to mention specifically about the disease, blood groups and the time interval for transfusion.
* User is notified about the availability of blood before 2/3 days of the prescribed time duration of transfusion.
* User is informed before time arrives if there is not sufficient blood.

**Inventory and stock management:**

As a user I would like to get a feature so that I can search for a particular blood group and get notification about the quantity updates of specific blood group.

* User must put the name of the specific blood group that he required.
* User can select suggested blood group if he/she does not know the specific name.
* User must turn on the notify option beside specific blood group.
* User must choose the notification option by how he will get the notification, through mobile message or email.
* User must have saved the specific blood group if he/she needs updates of it within next few days. By that user will get recommendation about the blood.
* If user didn’t get any notification, user can complain his report on complain tab, system will forward it to the proper authority.
* If any blood group has over stock, then system will notify the authority to donate that specific group of blood to other blood bank.
* If any blood group has low limit of stock, then system will recommend to the donor to donate if he/she able to donate

**Discarding of expired unsuitable blood:**

As a user I would like to get a feature so that I will be notified before 2 days any blood gets expired.

* User must have turn on notification of alert option.
* User must choose the notification option by how he will get the alert notification, through mobile message or email.
* If any specific group of blood didn’t find any user before a day it gets expired, then system will forward the notification to the authority to alert other blood bank if they have any user.
* If any specific group of blood get discarded soon, then system will notify/suggest donor to donate that specific group of fresh blood if he/she suitably able to donate.
* Any user can recommend any suggestion about that specific blood on the comment tab.
* Further if any specific group of blood didn’t find any user, then system will forward the notification to the authority to forward the blood to the medical laboratory if pathologists need it for their examination purpose.

**Stuff Management:**

An admin can simply log in where he/she can manage the details of all available records. Stuffs are also able to see their shift and work place details.

* An admin can see the personal details of the stuffs.
* An admin can change the duties of the stuffs if required.
* Admin would be able to add new stuff in the database.
* Admin would be able to remove an existing stuff from the database if required.
* By login to their website stuffs would be able to see their work sector, work time, break time.

**Blood sales and purchase details:**

As an admin I would be able to see the blood stock, available blood group and amount cost etc.

* An admin can see the available blood stock.
* Admin would be able to see the buyer details that purchase or donate blood from their blood bank.
* As a System user we can see the available blood group and blood amount, cost, from the blood bank website.
* A system user can make a payment by using card (All types or card) or cash.
* Administration will update their blood stock website after every sales.
* A system user can make a offline blood request for their required blood groups.
* An admin can see the total purchase and cost of blood.

**Connect with other blood bank and hospital:**

As a user, I would like to use this feature. Because, I can search blood for particular patients in their critical situation. It can help us to find blood within time.

* He/she must registration through email, phone number in the blood bank as a user. User can apply for specific blood group in critical situation.
* If the applicable blood group isn’t available in blood bank, then the user get notification.
* User must call for blood in urgent situation.
* If user cannot get any notification via email then he/she can complain.
* If the specific blood is available then user gets confirmation notification.
* User can also rate the service of blood bank.
* User must notify about few blood bank that, which blood bank or hospital are capable to send specific blood on urgent.

**Safe Delivery of blood:**

As a user, I get help in this feature. Safe delivery of blood is a most important part for users.

* User must know about the delivery procedure.
* User must check time that the blood bank or hospital can deliver blood timely or not.
* If blood can’t reached properly then the user must complain to the authority via complain tab.
* User must know about when blood is issued from the blood bank, the time of issue must always be recorded.
* User must know the details of Blood, which should be issued in a cold box or insulated carrier which will keep the temperature under +10 °C. a carrier that will keep the temperature at between +20 °C and +24 °C.