Software Requirements Specifications - Raktkosh

**Title**

Raktkosh

**Description**

Raktkosh is an online platform that brings the blood donors and receiver under one roof. It allows the receiver search for the donors in their locality with ease and help them to connect easily without any hassle. It also allows the donors the look up for the receiver or blood bank near them to donate blood.

**Scope**

This application only makes the searching for donors/receiver easy. They need to visit at some medical facility for transfusion.

**Actors**

1. User (Donor/Receiver)
2. Blood Bank Administrator
3. Admin

**Functional Requirements**

1. User
   1. User should be able to sign up.
   2. User should be able to sign in.
   3. User should be able to verify email.
   4. User should be able to verify mobile number.
   5. User should be able to change password.
   6. User should be able to recover password.
   7. User should be able to view their profile.
   8. User should be able to update profile.
   9. User should be able to sign out.
2. User (Donors)
   1. Donors should be able to search for receivers in their area.
   2. Donors should be able to contact with receivers.
   3. Donors should be able to look for blood bank nearby.
   4. Donors should be able to respond to the receiver request.
   5. Should not be able to donate before 3 months if donated.
   6. Should be able get notification of campaign running nearby.
3. User (Receiver)
   1. Should be able to search for donors/blood bank nearby.
   2. Should be able to place request.
   3. Should be able to contact with donors.
   4. Should be able to lookup for available bloods in blood banks nearby.
4. Blood Bank
   1. Should be able to maintain records of available blood types.
   2. Should be able to maintain transfusion appointments.
   3. Should be able to schedule donation campaign.
   4. Should be able to check past campaign records.
   5. Should be able to modify upcoming campaign.
5. Admin
   1. Should be able to suspend user accounts.
   2. Should be able to see all the user accounts.
   3. Should be able to see all the suspended user accounts.
   4. Should be able to activate suspended accounts.
   5. Should be able to check the records of transfusions (successful/failed).

**Constraints:**

1. Donor should not be able to donate twice within 3 months.
2. Donor should not be less than 18 and more than 60 years old.
3. Users should not be able to view contact details of others.
4. User should not be able to use if account is not verified.

**Platform:**

It will be launched as Web-based application.

**Technologies:**

1. Backend
   1. Restful API
   2. Spring Boot
   3. Hibernate
   4. MySQL
2. Frontend
   1. ReactJS
   2. Redux
   3. SASS
   4. Material UI