

# **E-RaktKanika**

## **Business Requirement Specification**

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## 1. Introduction

### 1.1 Document Purpose

This document communicates the business requirements and scope for developing **System of connecting blood donors and acceptors**. The scope of this document is to define the functional and non-functional requirements, business rules and other constraints requirements.

### 1.2 Project Background

When there is a need to find any specific blood type, people either go for an online search to check availability of required type and quantity of blood in nearby blood banks or try to find donors via connecting people through their social networks.

But in case of emergencies, it is very time consuming and in case of online search, most of the time the information related to blood banks is incomplete. So, to make the searching most effective and easy, we are providing an online platform as a solution.

And also, we are helping NGOs and any kind of personal organizations to arrange blood donation camps as per their requirements by providing an additional feature of 'Organize Blood Camp'.

### 1.3 Goals of the project

- To enable effective blood reserve's searching
- Organizing blood donation camps

### 1.4 Customers and Stakeholders

Customers:

- Receivers who are in need of blood
- Hospitals who are in need of blood
- Organizations who want to arrange blood donation camps

Stakeholders:

- Blood Bank
- Administrator

## 2. Business Requirements Overview

- E-RaktKanika is a public web application.
- E-RaktKanika System will be opened globally, but in the phase 1, the main target is in Pune city.
- There are mainly three types of users. The Receiver, Hospitals and Organizations.
- Receivers can search for required blood group availability.
- Hospitals can check availability of blood reserves by searching in the blood bank directory.
- Organizations can arrange blood donation camps by allying with blood banks.
- E-RaktKanika System could be maintained by the Administrator.
- E-RaktKanika System provides the functions which connect the receivers and the blood banks efficiently.

### **3. Functional Requirements Overview**

E-RaktKanika portal consists of five modules described below.

1. Receiver Module
2. Hospital Module
3. Administrator Module
4. Blood bank Module
5. NGO Module

#### **3.1 Receiver Module**

- Receiver (individual person) can search for the required blood type and quantity based on following criteria-
  1. Based on location of blood banks
  2. Based on type of blood
  3. Based on type of blood component
- Receiver is able to see the Stocks/Reserves availability of blood.
- After searching, the receiver can contact the blood bank.

## 3.2 Hospital Module

- Hospitals can register and create their own account.
- E-RaktKanika portal allows hospitals to search for the blood banks to fulfil their requirements of blood.
- After searching, Hospitals can contact the blood bank

## 3.3 Admin Module

- E-RaktKanika portal should provide all functions to admin how to handle the System.
- How hospitals and blood banks are using this portal and are they authorized?
- To Keep updating the information about camps that are being organized currently.

## 3.4 Blood Bank Module

- E-RaktKanika portal allows blood banks to register and create their account.
- Blood banks will also have the access to maintain their portal by maintaining or updating the information like blood reserve's stocks.
- To fulfil user's or hospitals requirements.

### 3.5 NGO Module

- NGOs can register information about Camps that will be organized by filling a detailed form.
- NGOs can choose blood banks location wise to tie up with them.

## 4. Non-functional Requirements

- The website should use professional design, look and feel and colour scheme.
- Users will have no limitations for accessing the application through the Internet. The portal being an internet application, it is difficult to specify exact number of visitors or users.
- Being a public website, the site must follow general usability guidelines for menus, navigation, colours, links and other actions provided on the screens.
- The system should be designed in such a manner that users will be able to complete tasks in a minimum number of steps.