SYSTEM REQUIREMENT SPECIATION FOR RAKTKOSH.COM

Document: System Requirement Specification Document

Title: System Requirement Speciation for Raktkosh.com

Objective (Purpose):

- The focus of this system is to provide an online easy access to blood stock and manage blood stock data available, so that using this blood bank management system people can search blood group available they need.

- It will replace the paperwork.

- It keeps the records of Donor, User, Blood bank, Blood stock available.

- The system helps the user to find the availability of blood group they need.

Scope:

- Secure registration and blood stock availability for users.

- Browsing through the System to see the availability of blood group required. Donor can register online to donate the blood
- This web application will help the people in need of blood to save the life of their relative or friend.

Functional requirement:

User Registration:
For Raktkosh online platform there are certain requirements. The user should be able to register themselves and add the details to create the account. The details should include the First name, Last name, user mobile number, and add the password and confirm the password.
If the data is valid then and then only the user will be able to create the account.

User Login:
Registered users should be able to login to the page with valid credentials. After login the user can check the availability of different blood groups in various blood banks.

Donor Registration:
The donor should be able to register themselves and add the details to create the account. The details should include the First name, Last name, donor mobile number, email, gender, city, password and confirm password.

Donor Login:
Registered donor should be able to login to the page with valid credentials. After login the donor can schedule an appointment with his selected blood bank to donate the blood.

Blood Bank Registration:
The blood bank should be able to register themselves and add the details to create the account. The details should consist of blood bank name, its parent hospital name, category, License number, email, state, district, city, password and confirm password.

Blood Bank Login:
Registered blood bank should be able login to the page with valid credentials. After login the bank can schedule blood donation campaign at their preferred location.

NON-FUNCTIONAL REQUIREMENT:

SECURITY:
Users and Donors information should be kept confidential under security system.
The system automatically logs out after the period of inactivity.

RELIABLITY:
System will be reliable enough to provide intact information about to user and donor.
Once the blood is donated donor will receive the notification on the same.

AVAILABLITY:
Users and Donors can access this management system from anywhere from this web application.
System should be available 24*7 hrs.

PERFORMANCE:
Basic system configuration is enough to access the web application.
Users and Donors can access the web application from mobile phones with minimal performance of the same.
Performance of the system remains same regardless of platform either it is laptop or mobile phone.

PORTABILITY:
PDA: Portable Device Application.
System will provide portable User Interface (HTML, CSS, JS) through users will be able to access online portal.
System can be deployed to single server, multi-server, to any OS, Cloud (Azure or AWS or GCP).

ACCESSIBILITY:
Only registered person will be able to see available blood stock after authentication.
Admin will be able to view all available blood stock and registered blood bank and users' information.

MODULARITY:
System will design and developed using reusable, independent or dependent scenarios in the form of modules
These modules will be loosely coupled and highly cohesive.

MAINTAINABLITY:
System should be easy to maintain and upgrade. Commercial database software will be used to maintain system data persistence. Separate environment will be maintained for production, testing and development**.**

SCALABLITY:
System should be scalable as donor base, user base and blood bank increases system should provide consistent user experience.