

# SOA – Documentation

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## App Description

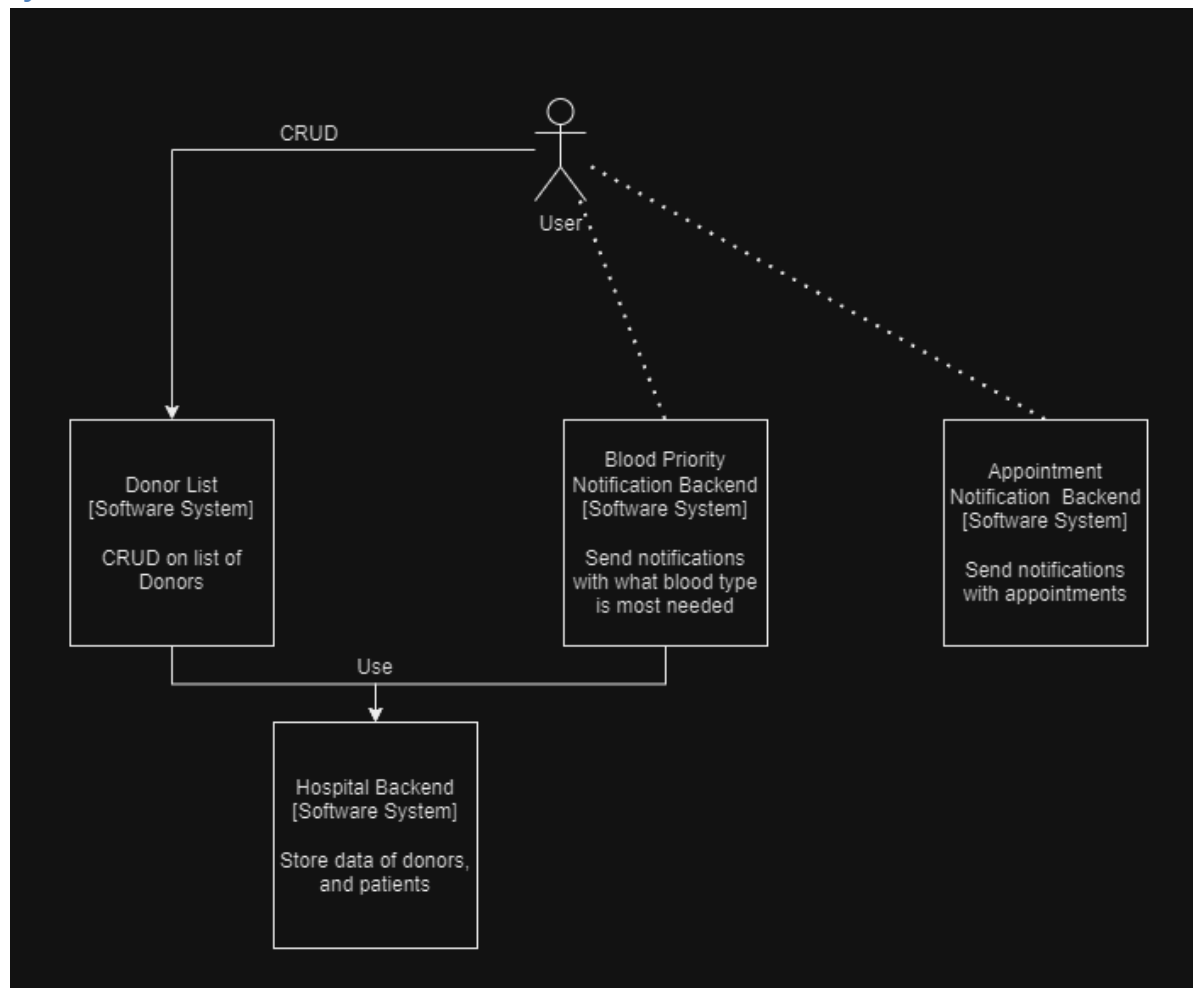
This application could be beneficial for a blood donation centre. This can be utilized by the center's staff to monitor donors, the need for blood, priorities donors based on blood group and track when blood is collected from various hospitals.

All these functionalities are divided into the following microservices:

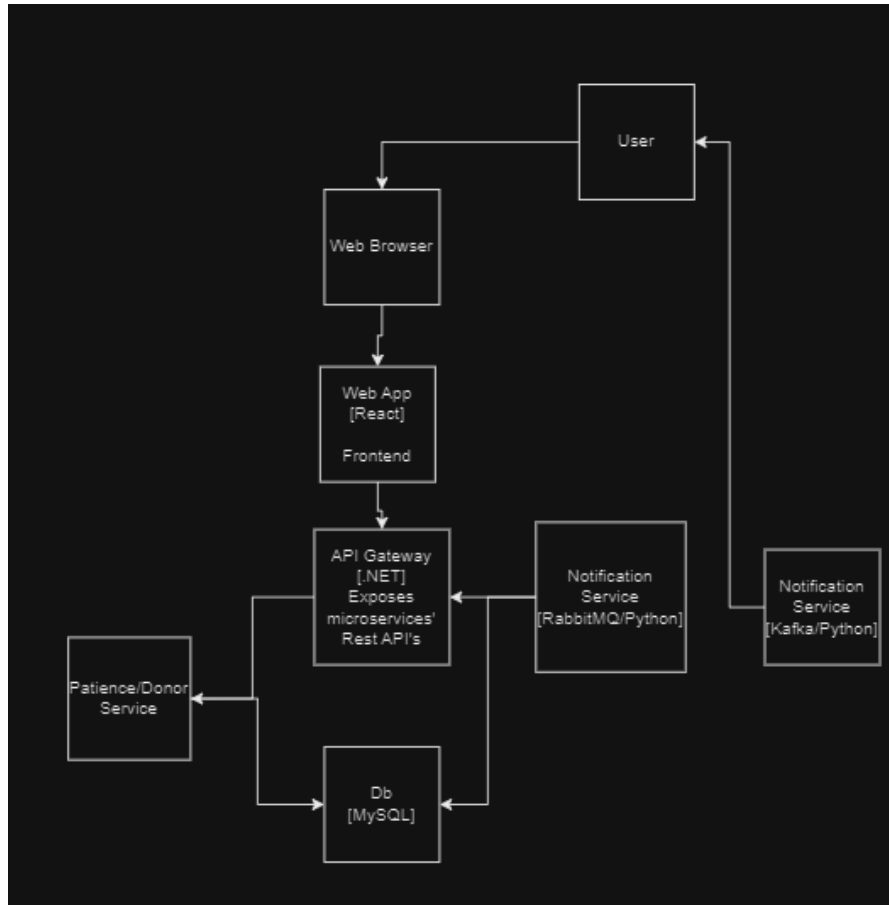
- Secured REST api - CRUD for Donors with CORS.
- Load balancers – using nginx.
- Communications
  - Message brokers – RabbitMq to send appointments.
  - Event streaming – Kafka to send what blood type has priority.
- Web app – Interface to perform CRUD on Donors and to receive message & notifications

## Diagrams

### System Context

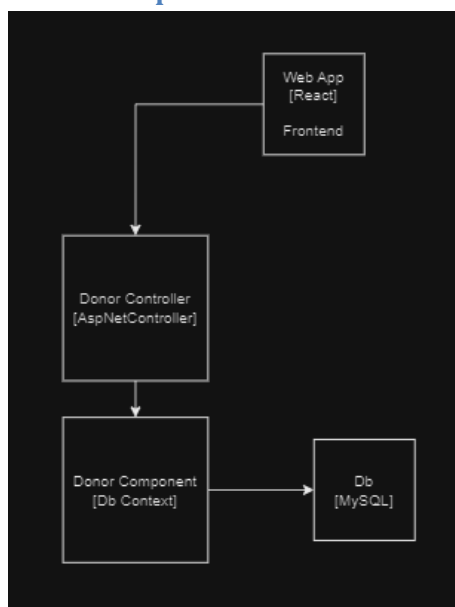


## Containers

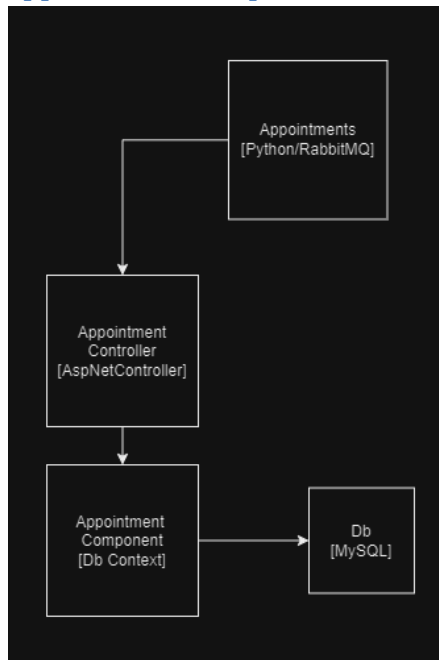


## Components

### Donor Component



## Appointment Component



## Code