

Blood Donor Request App for reliable availability of blood

Australia based Non Profit Organization working to build an ecosystem to connect blood requesters with the donors in their geography, requested Stanra to build a Mobile App based solution. The application is live in India and Australia.



An easy to use mobile app for quick and reliable availability of blood connecting donors and requesters thereby becoming a major contribution in saving lives

Challenges

Build an easy to use application which is focused on shortest possible time for a person in need, starting from raising a request and connecting with potential donors, while protecting the identity of the donors.

Solution

Stanra as part of our solution, developed the Product:

- Designed a **User Interface** to achieve a short request and registration process.
- Created **Architecture** and **Design for Backend APIs**
- Designed **infrastructure on AWS** for a **5 millisecond response time**.
- Implemented **backend APIs** using **Java 8** and **Spring Boot**
- Built a **Hybrid Mobile App** for **Android** and **iOS** using **React Native** for quick launch and swifter development
- Integrated **Google maps** for location detection and sharing
- Implemented **Real-Time Analytics** dashboard using **React.js**

Technology used: Microservices, AWS ECS, MySQL, React Native, Java 8, Spring Boot

Benefits

A scalable and cost effective cloud based solution with easy to use Mobile app for a quality user experience which reliably resolves a social need for timely blood availability

Innovation

- Google Maps based request and donors tracking
- Personal identity protection options based on individual and local compliances.
- Instant help by suggesting alternate blood options and multiple donor options based on requester location

Result Highlights

AWS Infra with 5ms Response Time

Real-Time Analytics Dashboard for Better Visibility

Hybrid Mobile App for Access Through Multiple Operating Systems