

Blood Donors Database

The idea of the database is to collect the willing Blood Donors Communication Details and make it available for prospective recipients based on the nearest person available.

- ➔ MongoDB to have collections of users (Name, Phone Number) , their blood group , location (PIN Code)
- ➔ REACTJs based frontend with NodeJS backend services for the following functionality
 - Registration Screen (Where users register as a blood donor / prospective blood receiver / Both)
 - Search Screen for the nearest blood donor availability. Distance should be calculated based on PINCode.
- ➔ The whole code should be available on a public GIT Repository for validation.

Extra Points will be awarded on the following criteria

- ➔ You can provide blood groups available based on the following table instead of a straight blood group match

Blood Type	Gives	Receives
A+	A+, AB+	A+, A-, O+, O-
O+	O+, A+, B+, AB+	O+, O-
B+	B+, AB+	B+, B-, O+, O-
AB+	AB+	Everyone
A-	A+, A-, AB+, AB-	A-, O-
O-	Everyone	O-
B-	B+, B-, AB+, AB-	B-, O-
AB-	AB+, AB-	AB-, A-, B-, O-

- ➔ The distance between PINCodes be calculated using MongoDB geospatial search instead of using a google maps / distance api
- ➔ Providing everything in a Docker Container.