

Sign up/Sign In

- 1: Start
- 2 Get the Phone Number
- 3: Create OTP
- 3: Send OTP with SMS service provider
- 4: If OTP is not verified go to Step 3 otherwise go to Step 5
- 5: If the User is present with this phone number go to Step 7 otherwise go to Step 6
- 6: Create the User with essential details and store them in the User database
- 7: Go to the Home page
- 8: Stop

Available Request

- 1: Start
- 2: If User.Active = false, go to Step 9 otherwise go to Step 3
- 3: Get the User data
- 4: Use the User data to find potential request
- 5: Filter the request by area by fetching real-time device location from RealTime database
- 6: Display the requests
- 7: If the User accepts a request go to Step 8 otherwise go to Step 2
- 8: Add response to Response database and set User.Active to false
- 9: Stop

Real-Time Tracking

- 1: Start
- 2: Loop
- 3: Get Device location and Update RealTime database every 15 min
- 4: End Loop
- 5: Stop

Blood request

- 1: Start
- 2: Get the request details and store them in the Request database
- 3: Find the potential donors from the User database
- 4: Filter the potential donors with their device location stored in the RealTime database and the location of the request
- 5: Update the Request database with Potential donors
- 6: Sent the request to Potential donors via WhatsApp Business API
- 7: If a potential Donor accepts the request set User.Active as false
- 8: Store the request accepted donor list in Response Database
- 9: Display the request accepted potential donors to the User
- 10: If the request gets canceled drop Request collection, response collection, and set User.Active to true and go to Step 14

- 11: If the Donation is Complete go to Step 12 otherwise go to Step 13
- 12: Update the request database as complete and go to step 14
- 13: Update coverage area in each 1 hr and go to Step 4
- 14: Stop