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BLUD App



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About BLUD

"Blud" is a blood donation app with a primary objective of donating blood safely and efficiently

It focuses on:

Elimination of time delay to find a Blood donor

Prevent inefficiency of spamming blood donation requests.

Make blood donation easier for donors.

Promote blood donation.

Modules supporting BLUD

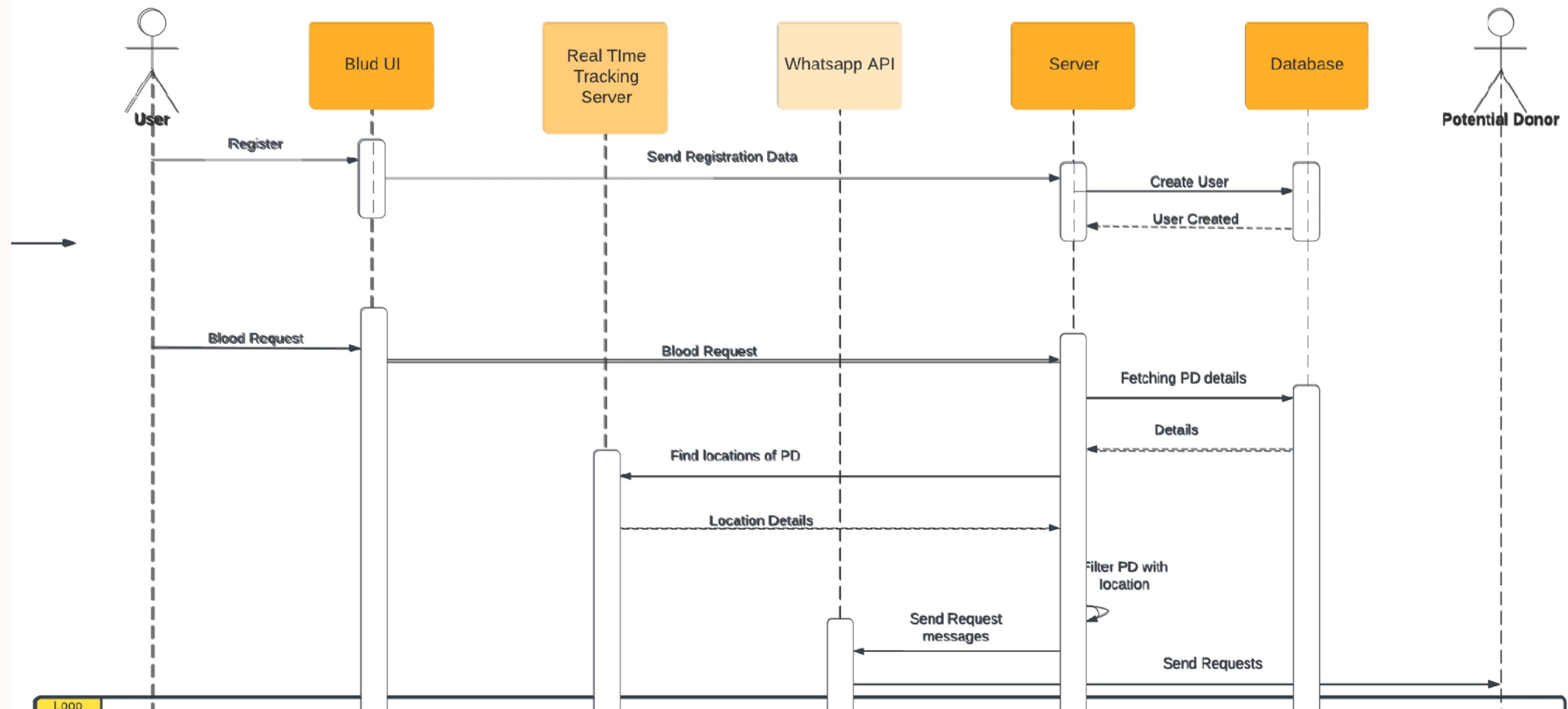
- UI
- Database
- RealTime Tracking
- WhatsApp API
- Server

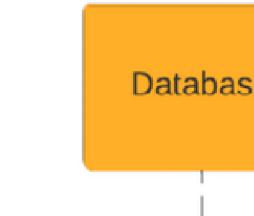
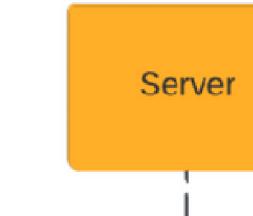
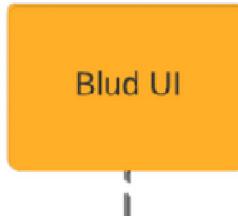
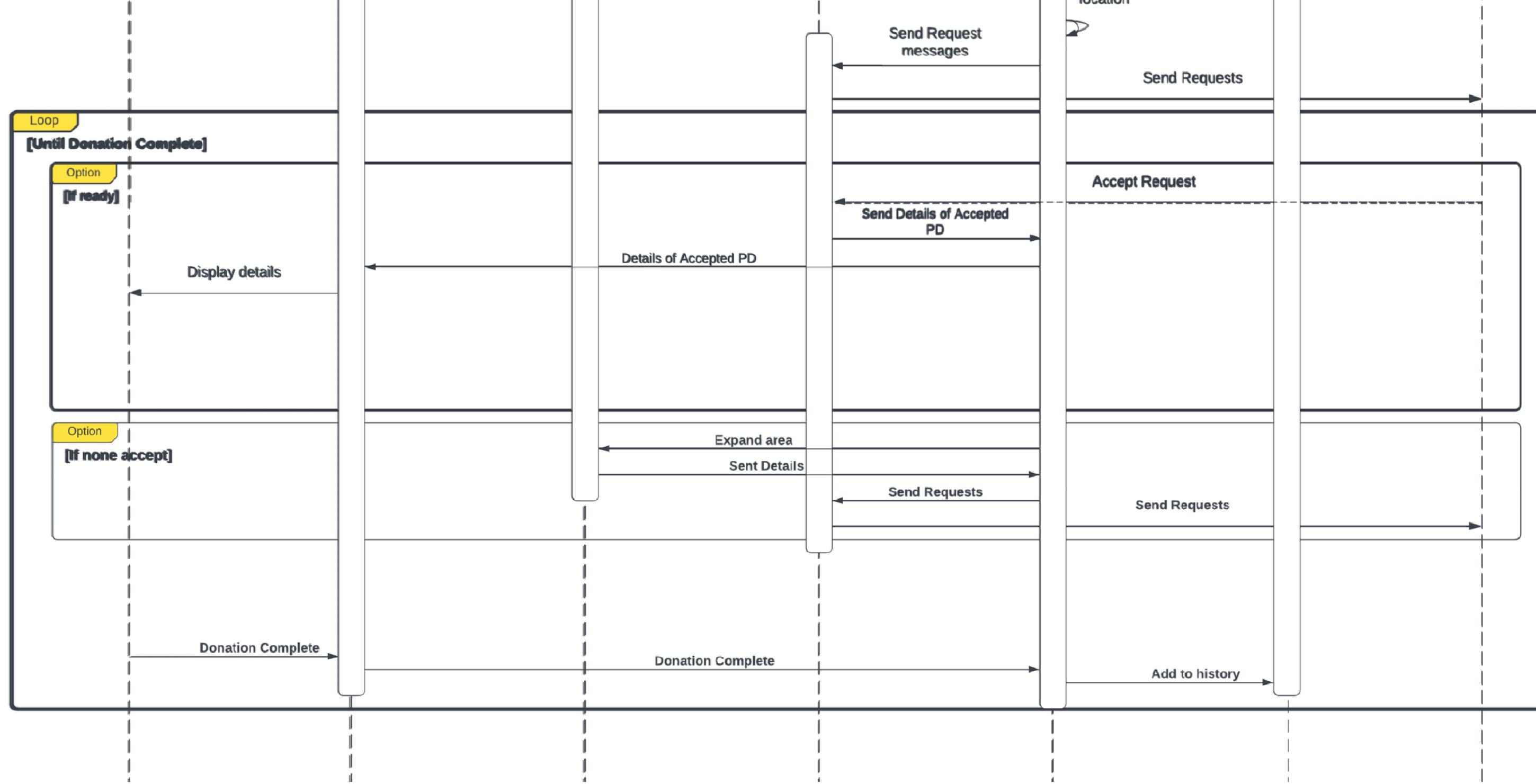
Types of Users

**Blood
Donors**

**Blood
Receivers**

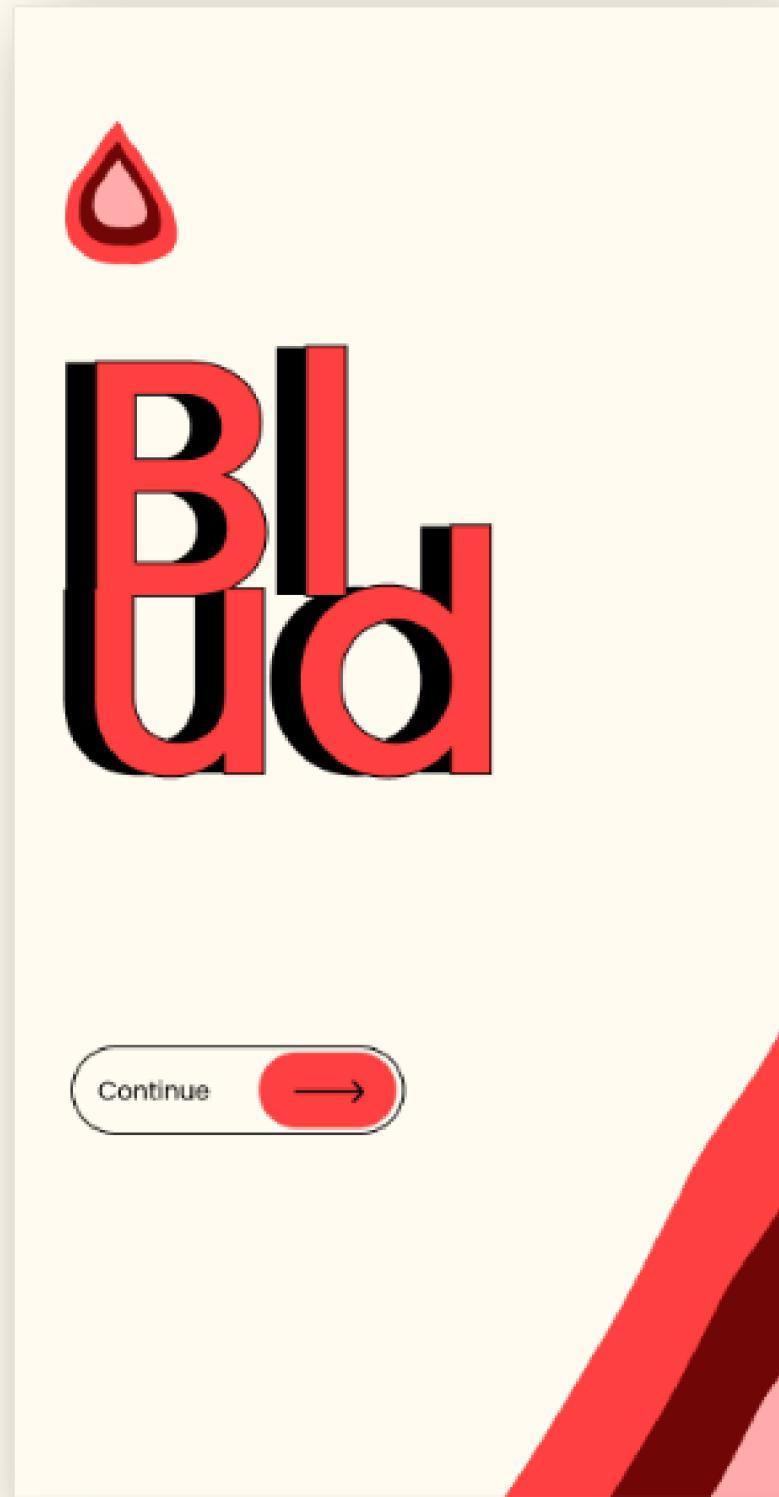
Sequential diagram showing module interaction



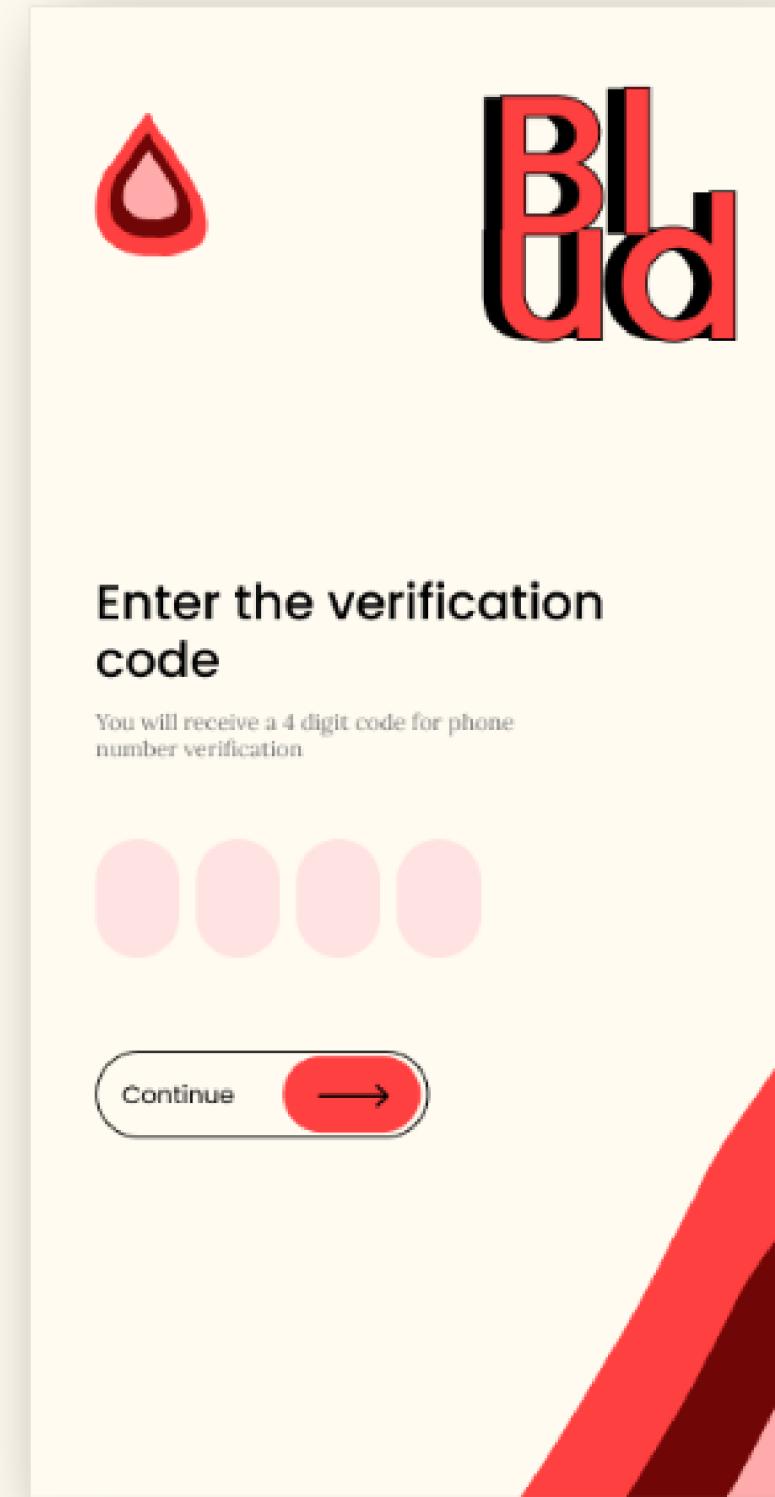


User Interface

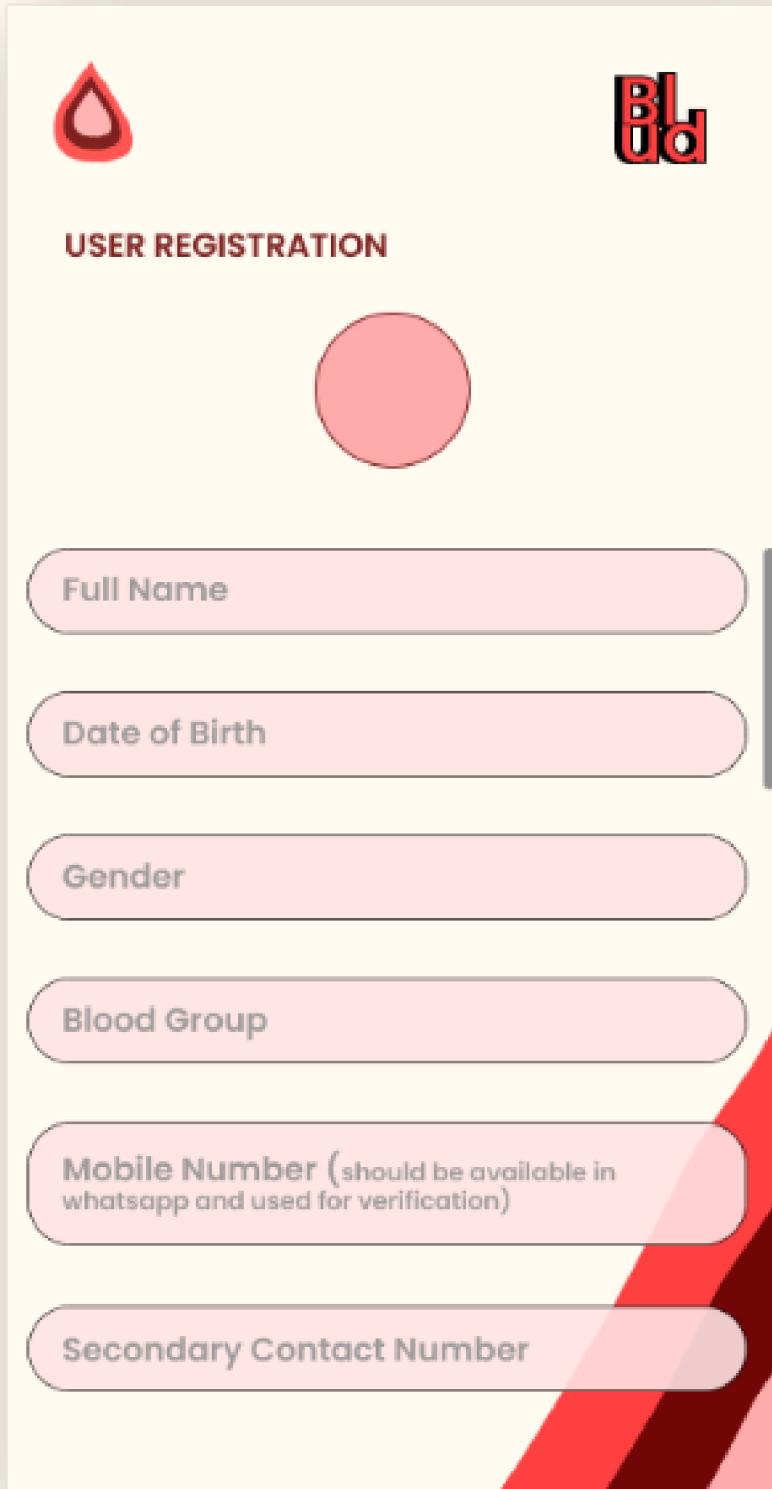
User Login



The second step of the user login process. It features the 'Blud' logo at the top right, consisting of the word 'Blud' in a bold, black, sans-serif font with a red outline. To its left is a single red blood drop icon. Below the logo is the text 'Enter your phone number'. Underneath it, a smaller text says 'You will receive a 4 digit code for phone number verification'. A text input field contains '+91'. At the bottom is a white rounded rectangular button containing the text 'Continue' next to a red arrow icon.



New User



Blud

USER REGISTRATION

Full Name

Date of Birth

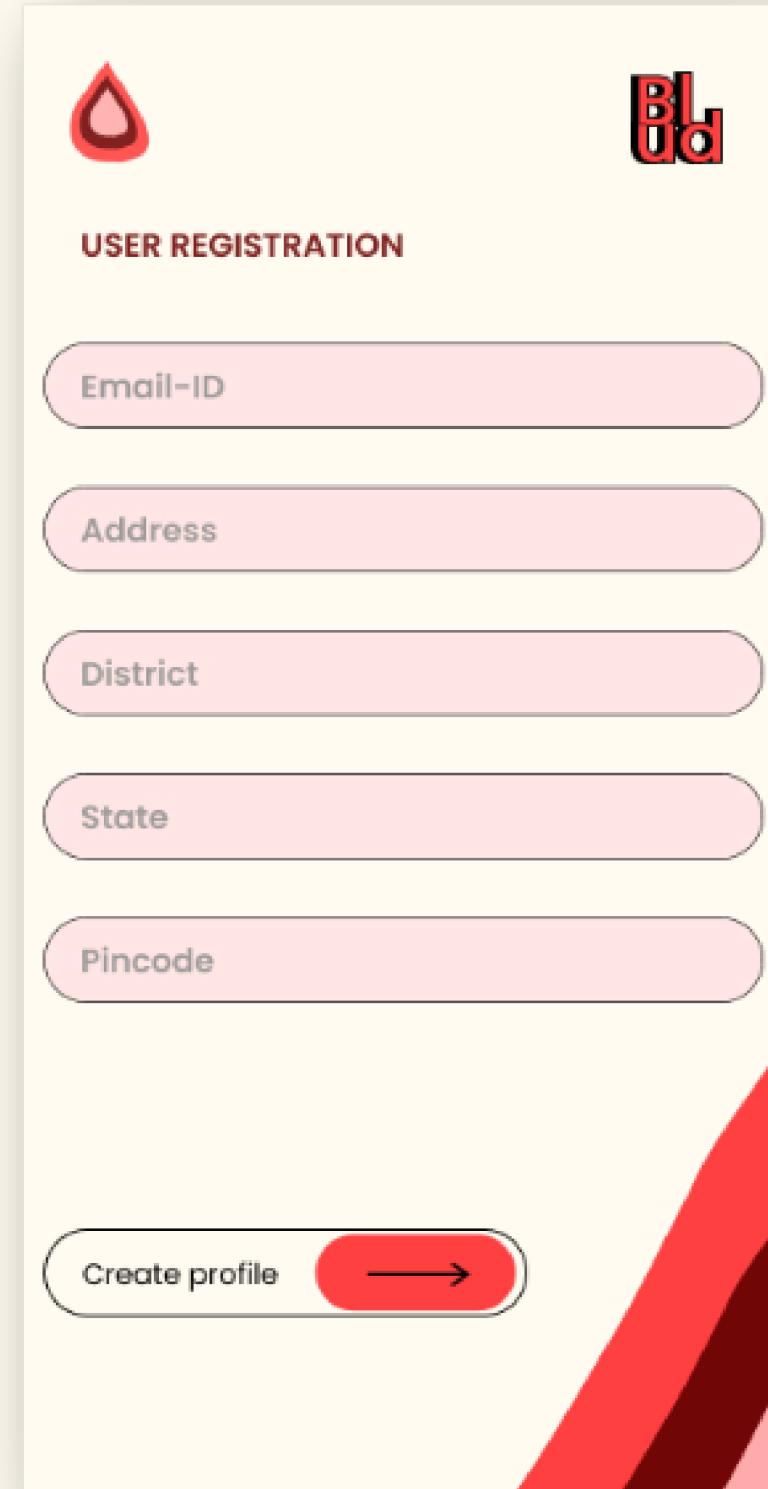
Gender

Blood Group

Mobile Number (should be available in whatsapp and used for verification)

Secondary Contact Number

A red circular placeholder icon is positioned above the "Full Name" field.



Blud

USER REGISTRATION

Email-ID

Address

District

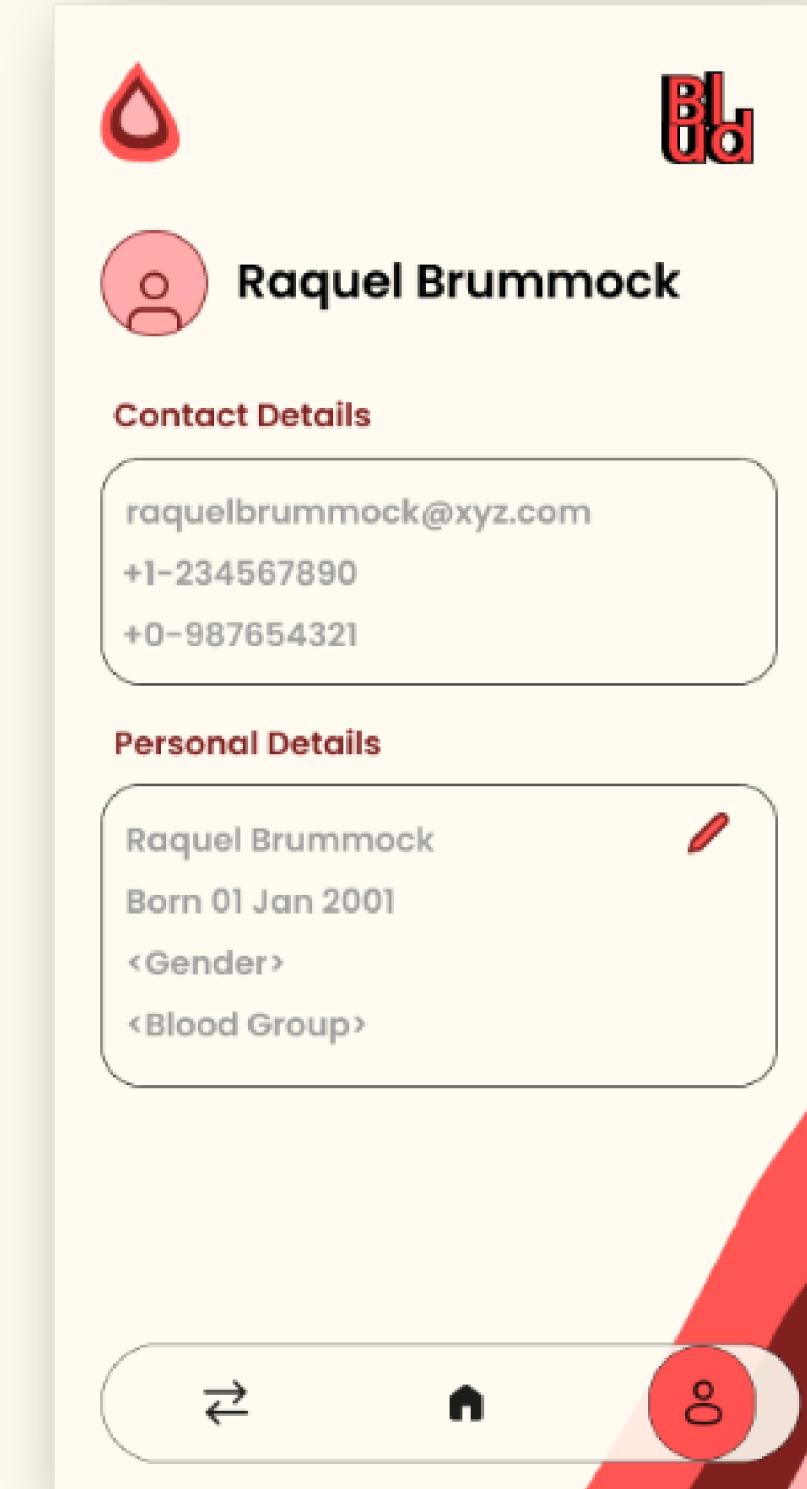
State

Pincode

Create profile →

The fields for Email-ID, Address, District, State, and Pincode are displayed horizontally.

User Profile



Blud

Raquel Brummock

Contact Details

raquelbrummock@xyz.com
+1-234567890
+0-987654321

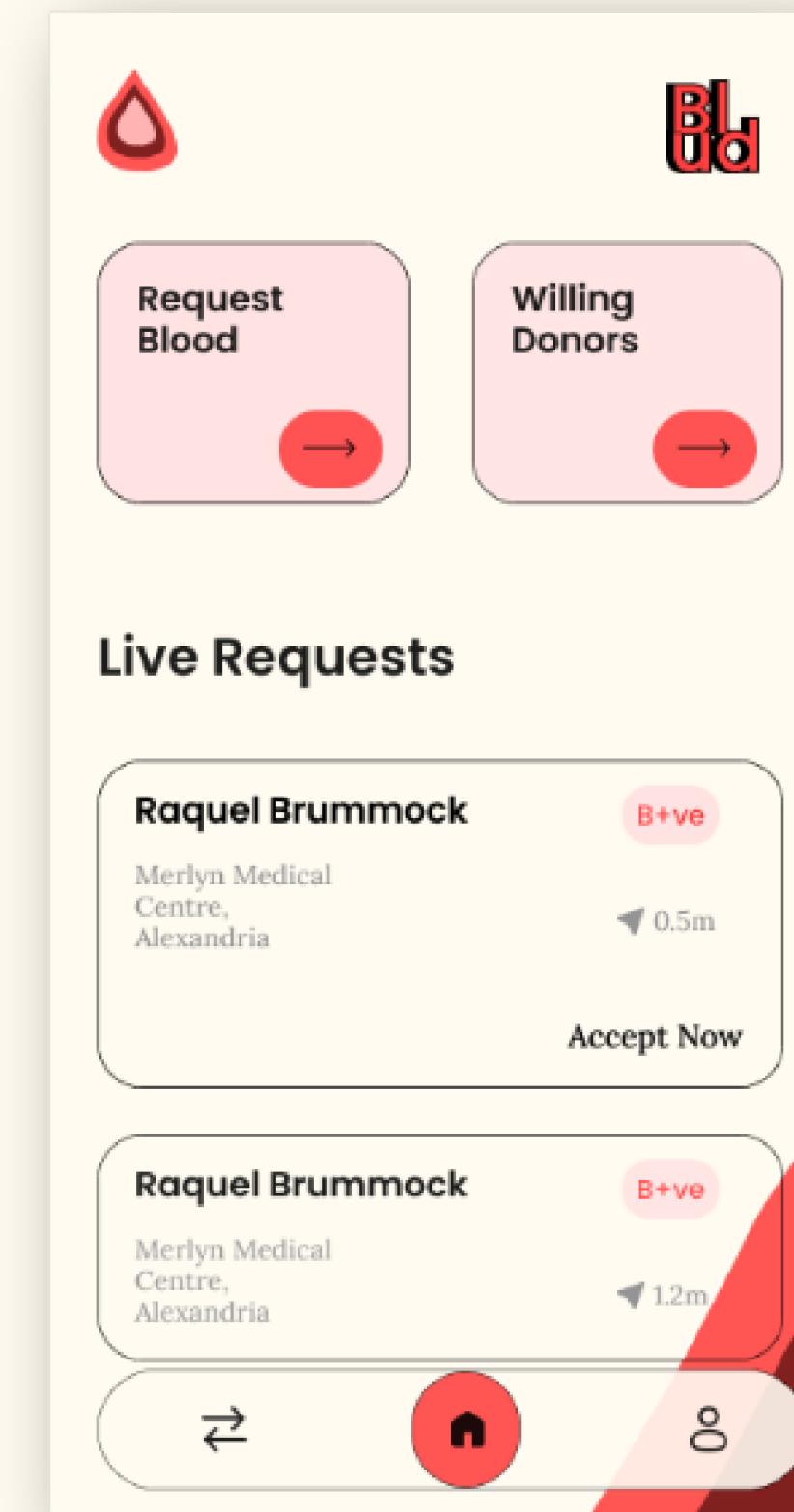
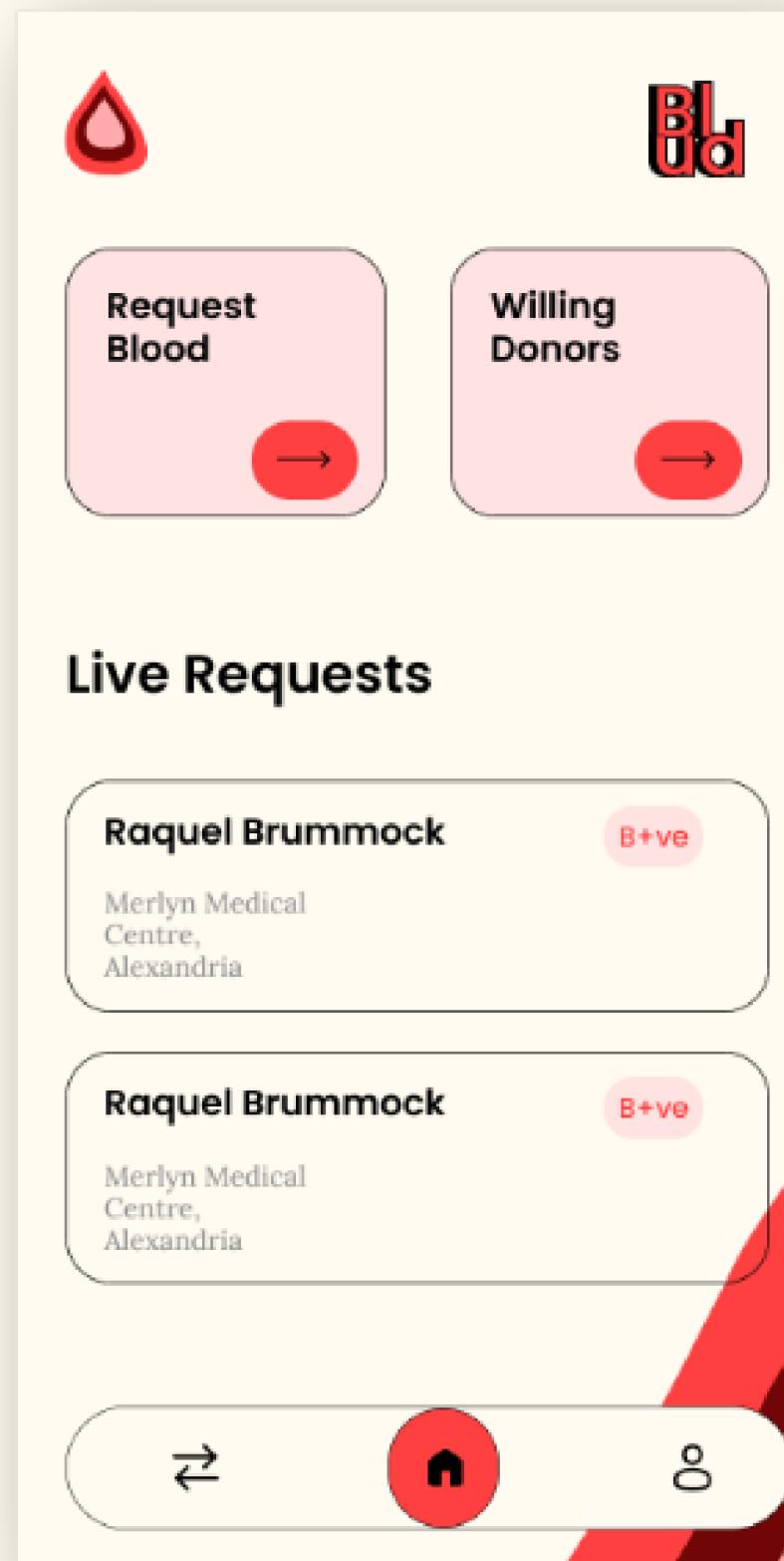
Personal Details

Raquel Brummock
Born 01 Jan 2001
<Gender>
<Blood Group>

← ⌂ ⌂

A user profile card for Raquel Brummock is shown, featuring her name, contact information, personal details, and a summary of her profile. Navigation icons are at the bottom.

Home Page



Request Blood

← Request Blood

Blood Group Units

Blood Group 1

Your Contact Details

Full Name of Patient

Mobile Number

Location/Hospital Name

District

Pincode

Date

Proceed →

← Request Blood

Bystander Name

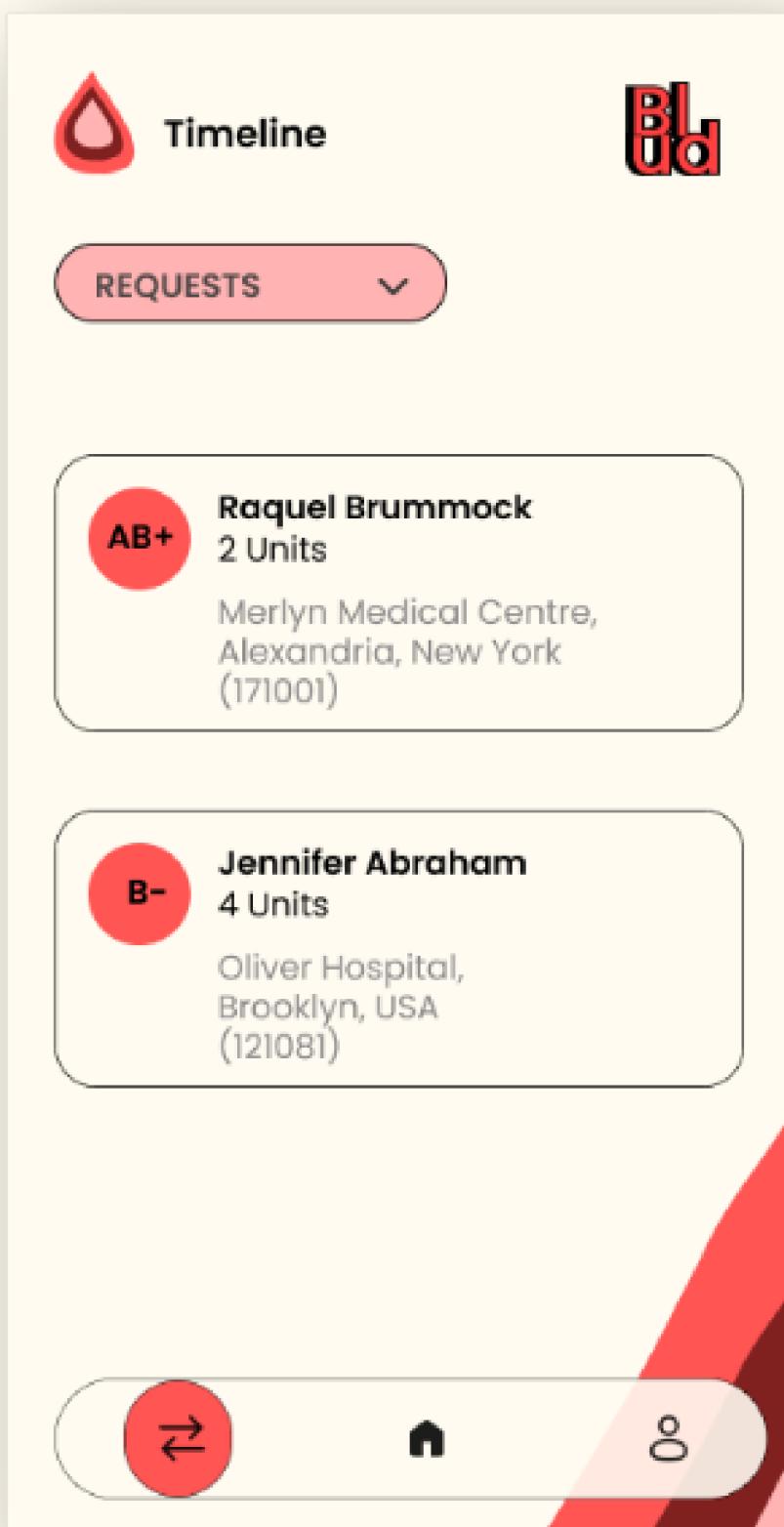
Bleeding place

Case of Admit

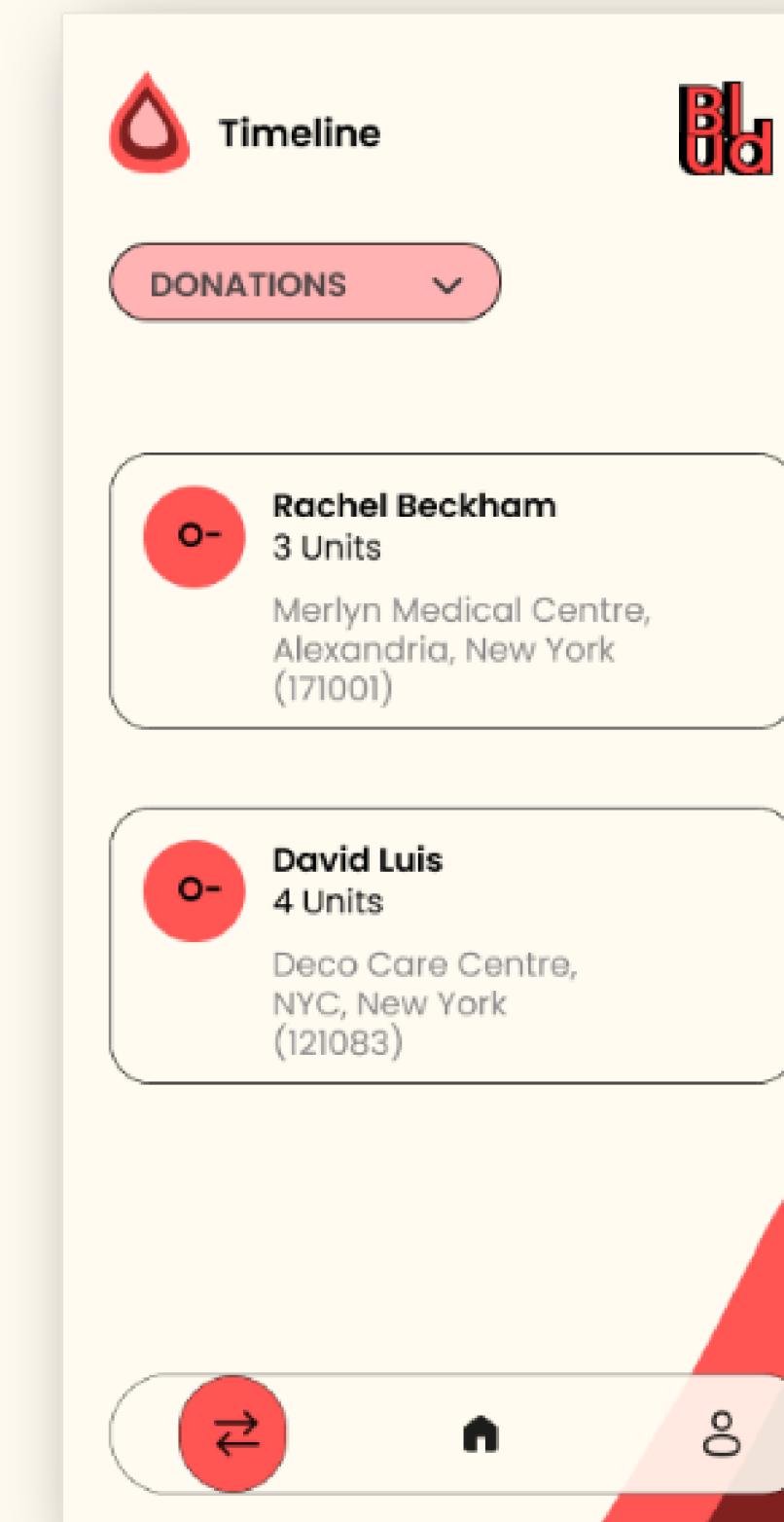
Proceed →

- ← Available donors
- Range Update in 00:00
- Raquel Brummock B+ve
12 Summerhouse
St.Brooklyn
Call Now Accepted?
- Raquel Brummock B+ve
12 Summerhouse
St.Brooklyn
Call Now Accepted?
- Raquel Brummock B+ve
12 Summerhouse
St.Brooklyn
Call Now Accepted?
- Raquel Brummock B+ve
12 Summerhouse
St.Brooklyn
DROP REQUEST EDIT REQUEST

Request History Page



Donation History Page

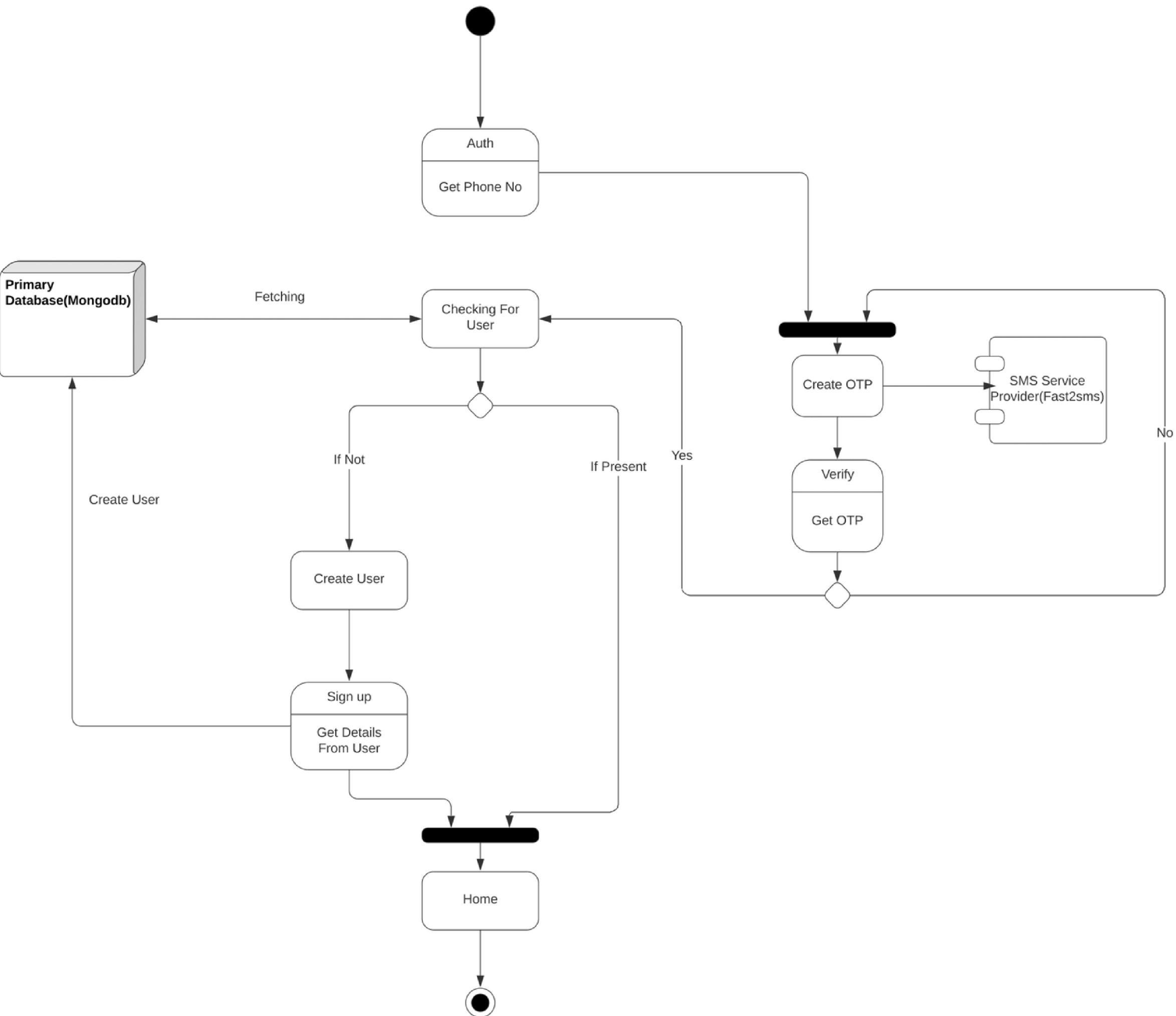


Sign In/Sign Up

Algorithm

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

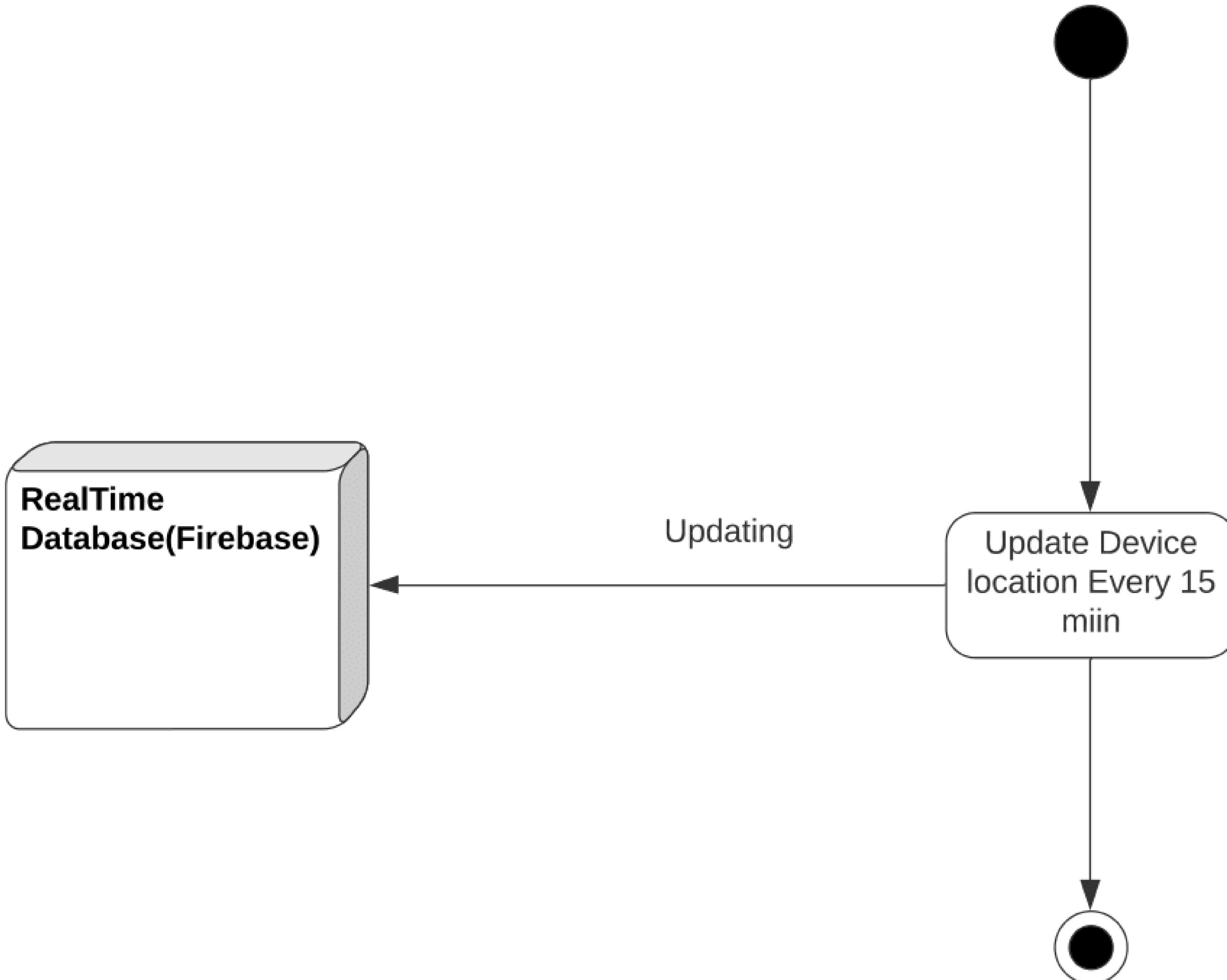
Sign up/Sign in



RealTime Tracking

Algorithm

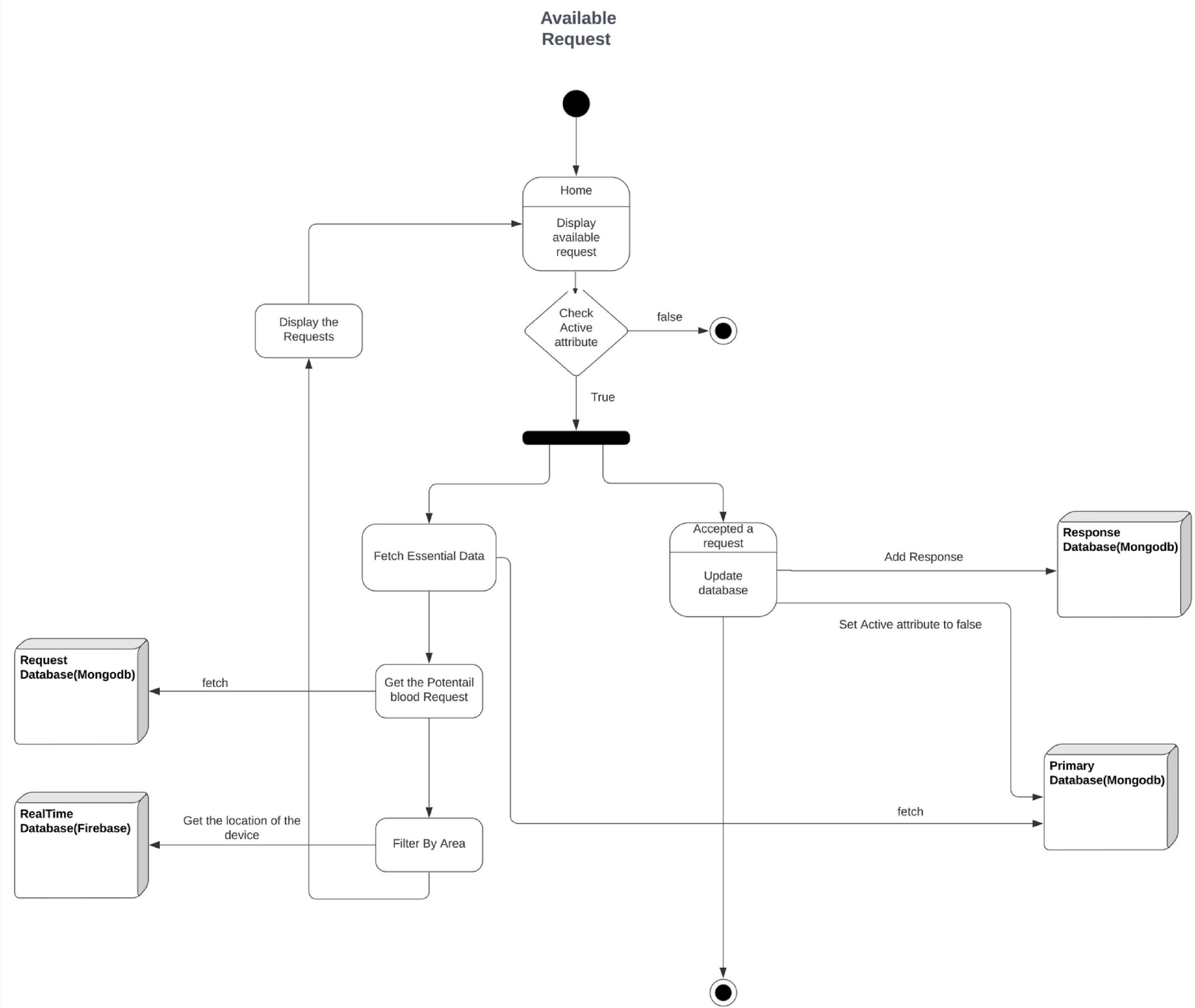
1. Start
2. Loop
3. Get Device location and Update RealTime database every 15 min
4. End Loop
5. Stop



Available Request

Algorithm

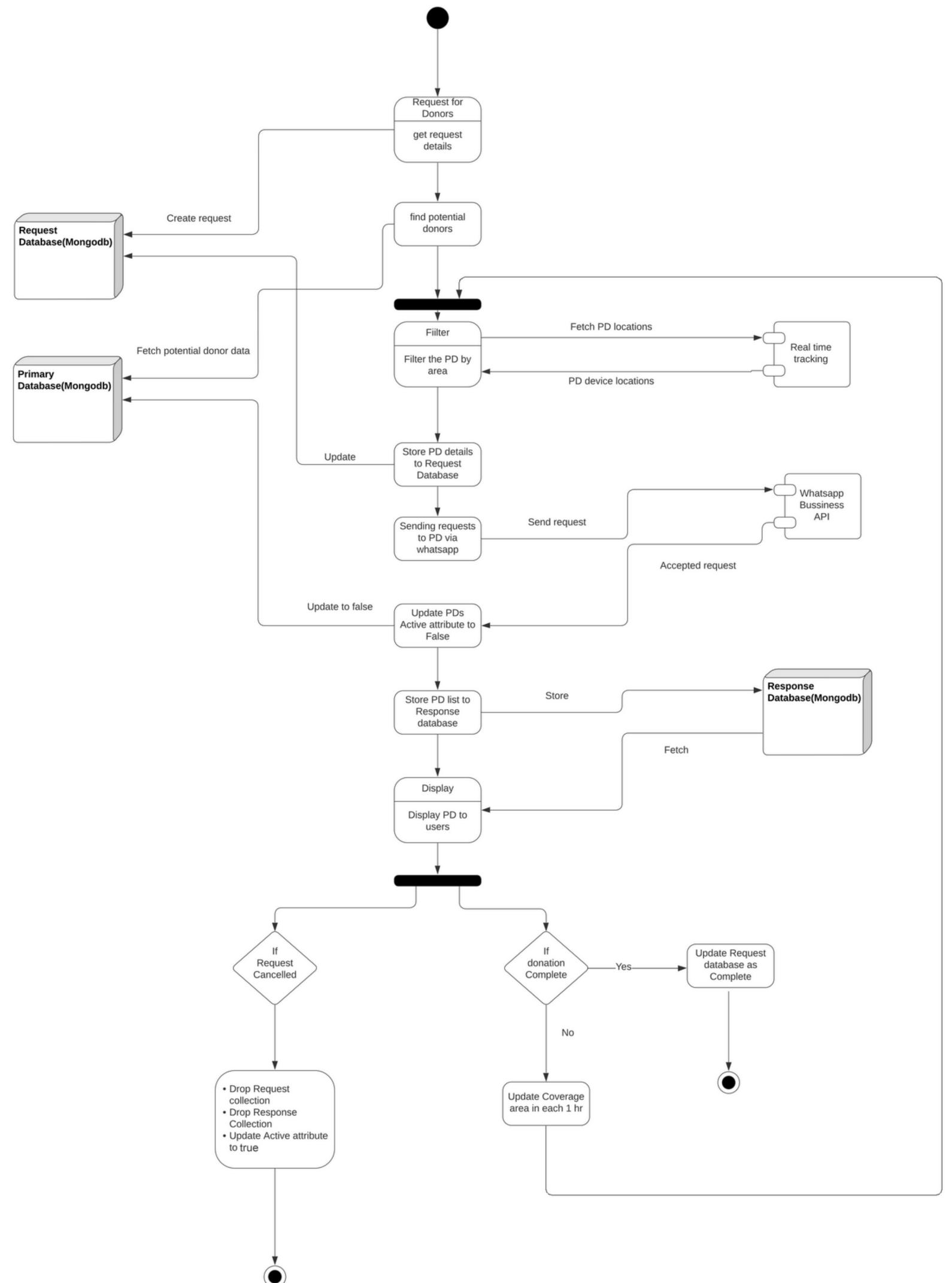
1. Start
2. If User.Active = false, go to Step 9 otherwise go to Step 3
3. Get the User data
4. Use the User data to find potential request
5. Filter the request by area by fetching real-time device location from RealTime database
6. Display the requests
7. If the User accepts a request go to Step 8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



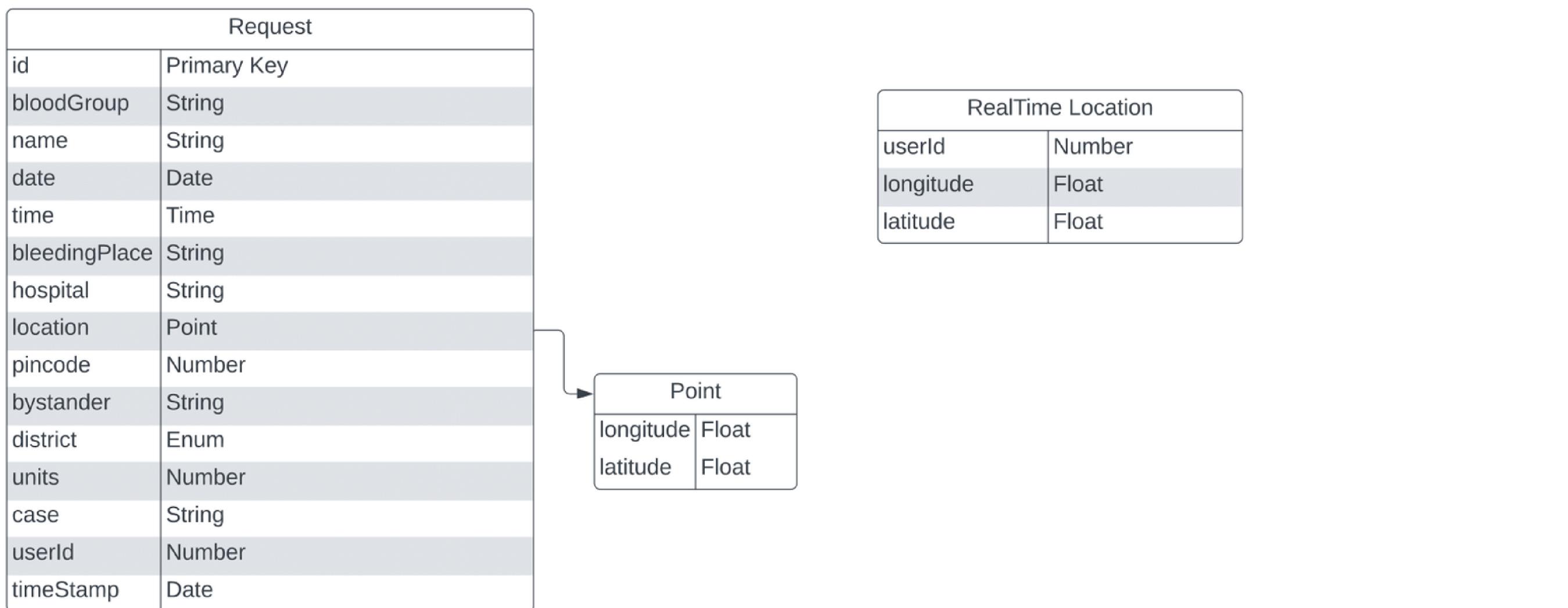
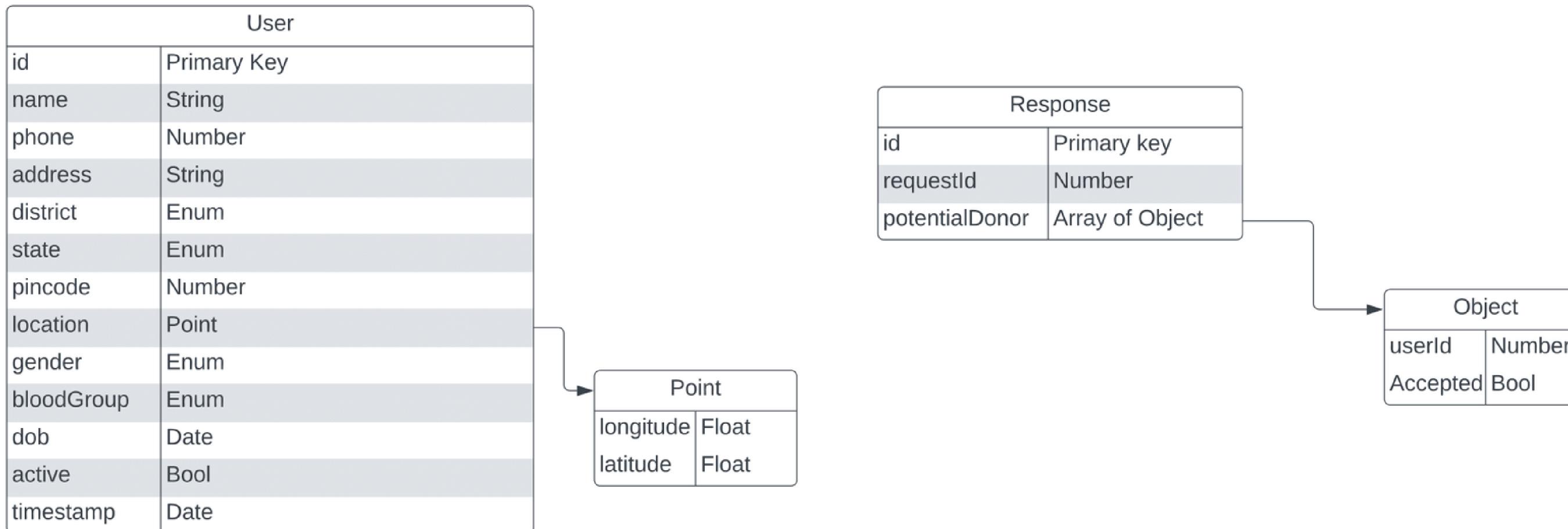
Blood Request

Algorithm

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



Database



Thank You.