BLOOD DONATION MANAGEMENT APP (PROCESSING)

INPUT DATA → PROCESSING → OUTPUT

Characters (3):

1. Donor
2. Request section
3. Blood Bank System

Processing:

- Open the app

Questionnaire (major diseases)

Yes/No

- Location permission
- Blood Map
- Language Options

1. Donors Section
   Login
   Location
   Hospital
   City
   Age
   Gender
   Previous donation history/Health Details

2. Request Section:

- Requests' History
- Create new requests for blood
- Check donor availability
- 24/7 availability of blood requests and updates

3. Blood Bank Section:

- Search bar
- **Filters**
o Blood Type
o Availability
o Date
o Price
o Location
o Fresh Blood
o Automatic Donor Matching after the request for required blood

4. Account Creation:

- Information required:
- Name
- Phone Number
- Gmail
- Location
- Profile Photo (Optional) Blood group
- Gender
- Password (must include alphabets, numbers and special characters)

Additional Options:
- OTP verification
- CNIC verification for Authenticity
- Already have an account? Sign in option

Processing Example:
Whenever a new blood request comes in, the system automatically
1. Checks available donors in the same area
2. Filters by required blood group
3. Confirms eligibility (age, last donation date etc)
4. Returns matching donors in 2-3 seconds after processing the input according to the required output