

# ALLYNET

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## ◆ Overview

AllyNet is a community-driven safety and support platform designed to address real-life scenarios where individuals require urgent, semi-urgent, or casual help from people nearby. It includes emergency handling, everyday help, and local promotion features, all while ensuring maximum privacy, trust, and accountability.

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## Complete Feature List with Flow, Scenarios & Technology Stack (Refined)

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### 1. Atmost Emergency Mode

**Purpose:** Immediate life-threatening situations

#### **Features:**

- One-Tap Emergency Trigger
- GPS-based Location Auto-Share (IP address hidden via reverse proxies)
- Custom Safe Radius Selection (avoid alerting people within danger zone)
- Exclude Specific Nearby Users (e.g., known threats or suspects)
- Verified Helpers Only (verified via KYC/optional Aadhaar with token-based verification)
- Silent Alert Mode (no sound or visible alert confirmation)
- Fake Call Distraction Feature
- Real-time Live Location Sharing (encrypted, expiring access)
- Auto-Dispatch after Timeout (e.g., 5 seconds)
- Option to trigger "Anonymous Neighborhood Alert" for passive awareness
- **AI Misuse Detection Engine:** Tracks help request patterns using AI/ML models. Flags users who frequently raise false alarms or show suspicious behavior (e.g., repeated alerts without real emergency).
- First flag: cooldown period enforced.
- Second flag: temporary block and auto-prompt for discussion with admin.
- Repeat offense: permanent suspension or reporting to moderators.

#### **Scenarios:**

- Girl being followed
- Attempted kidnapping
- Threatening stranger in public

### Technologies:

- **Frontend:** React Native / Flutter
- **Backend:** Node.js with Express
- **Location:** Google Maps API, Firebase GeoFire
- **Security:** HTTPS, AES encryption for GPS, reverse proxy IP masking
- **Notifications:** Firebase Cloud Messaging (FCM)
- **Database:** Firestore / MongoDB
- **AI Misuse Detection:** TensorFlow Lite or custom ML model on Firebase Functions

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## 2. Gray-Scale Emergency Mode

**Purpose:** Medium urgency, non-life-threatening help

### Features:

- Structured Emergency Posting UI

- Optional Custom Location Input
- Emergency Type Selection (e.g., Health, Security)
- Auto-Escalation if no one responds
- Chat only with accepted verified helpers

#### Scenarios:

- Trapped in elevator
- Medical emergency (non-life-threatening)
- Suspicious person spotted

#### Technologies:

- **Frontend:** React / React Native
  - **Backend:** Node.js / Express
  - **Chat:** WebSockets / Firebase Realtime DB
  - **Notifications:** FCM
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### 3. Non-Urgent Help Requests

**Purpose:** Everyday help/favors from community

#### Features:

- Post Request (text + optional location + category)
- Public Replies from Helpers Nearby
- Status Controls (Helped, Ongoing, Cancelled)
- Helper Ratings & Reviews

#### Scenarios:

- Need help carrying groceries
- Community volunteering
- Finding a lost pet or item

#### Technologies:

- **Frontend:** React
  - **Backend:** Node.js
  - **Messaging:** Firebase / Socket.IO
  - **Database:** Firestore / Supabase
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### 4. Skills and Local Business Advertising

**Purpose:** Monetization & community utility

**Features:**

- Skill Profile Listings (Tutoring, Dance, etc.)
- Local Ads for Businesses (groceries, plumbing, electricity, carpentry, etc.)
- Radius-Based Skill Search
- Paid Ad Promotions (freemium plans)
- Subscription Plans for Businesses

**Scenarios:**

- Local tutor posts listing
- Groceries post daily deals
- Freelancers (like electricians, plumbers) get clients nearby

**Technologies:**

- **Frontend:** Next.js / React
- **Backend:** Node.js + Stripe API for payments
- **Database:** PostgreSQL / Firebase
- **Search Engine:** Algolia / Elasticsearch

**Purpose:** Monetization & community utility

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## 5. User Roles & Trust System

**Purpose:** Build trust while preserving privacy

**Features:**

- Verified Helpers via Tokenized KYC (no storage of Aadhaar)
- Karma System (point-based reputation)
- Role-Based Access (Seeker, Helper, Business)
- Anonymous Helper/Seeker Mode
- Availability Toggle for Helpers (on/off switch)
- Cooldown Mechanism to avoid spam

**Technologies:**

- **Verification:** Digilocker APIs / Truecaller APIs (optional)
  - **Access Control:** Firebase Auth + Role Guards
  - **Rating Logic:** Firestore + Backend Points Engine
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## 6. Admin Panel

**Purpose:** Moderation & analytics

## Features:

- Helper Verification Approval
- Heatmaps of Emergencies (Geo View)
- Subscription & Listing Management
- Flagging & Moderation Tools
- Manual Emergency Escalation

## Technologies:

- **Admin UI:** React + TailwindCSS
  - **Data:** Firebase Admin SDK / PostgreSQL
  - **Analytics:** Google Analytics + Custom Dashboards
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## 7. General Features

- Dark Mode & Accessibility Options
  - OTP-based Login / Reset Flow
  - Multi-language Support (English, Telugu)
  - Voice Note Support (for emergencies)
  - Anonymous Emergency Trail Sharing (for passive security)
  - Expiring Location Token Sharing
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## Future Add-ons

- Voice Triggered SOS
  - AI-based Message Tone Detection
  - Auto-record Audio/Video in Danger
  - Integration with Police/Ambulance (optional)
  - College/Society Dashboard (B2B)
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## Security & Privacy Measures

- No permanent IP storage
  - Encrypted GPS data (AES 256)
  - Expiring helper access
  - Anonymous reports & requests possible
  - KYC only for helpers (not seekers)
  - No Aadhaar stored or exposed — only tokenized verification
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## B2B Model (Apartments, Colleges, NGOs)

### How It Works:

- You provide a **branded safety dashboard** to an organization
- Organization pays per user/license/month
- Custom emergency insights, dashboards, and helper lists

### Example Use Cases:

- *Apartment Complex ABC* integrates AllyNet for 200 residents at ₹10/user/month, giving them internal helper tracking, emergency heatmaps, and direct alerts.
- *XYZ College* licenses the AllyNet dashboard to monitor 1,500 students and runs awareness campaigns integrated into their campus app.
- *NGO DEF* sponsors AllyNet services in rural districts with limited safety infrastructure, making it free for verified users in that zone.

### Perks:

- Scalable revenue
- Long-term client retention
- Early trust-building

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## Revenue Model Summary

AllyNet's revenue model is designed to be scalable, ethical, and user-aligned, offering multiple monetization channels:

### 1. Freemium + Premium Tiers

- Free users access core safety tools.

- Premium users get benefits like priority SOS, post boosting, radius customization, and ad-free experience.

## **2. Local Business Subscriptions**

- Local vendors and service providers pay monthly fees to list and promote their services.
- Sponsored posts and premium ad placements are available for additional visibility.

## **3. B2B Licensing Model**

- Apartments, colleges, and NGOs can license AllyNet dashboards for internal safety monitoring and community engagement.
- Per-user pricing model (e.g., ₹10/user/month) with long-term subscription plans.

## **4. CSR & NGO Sponsorships**

- AllyNet partners with nonprofits and safety-focused CSR campaigns to offer free service zones funded by sponsors.

## **5. Referral System**

- Users are incentivized through AllyCoins or perks for referring friends, shops, or organizations.

## **6. Local Deals Marketplace (Future Expansion)**

- Vendors can post deals/offers that are promoted in-app for a fee or commission-based model.

## **7. Branded Campaigns & Safety Workshops**

- AllyNet collaborates with colleges, housing societies, and brands to run paid awareness or onboarding campaigns.

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## **Summary**

AllyNet is a scalable, privacy-respecting platform for local safety, support, and promotion. By incorporating community trust, verified participation, flexible control, and privacy-respecting verification systems, AllyNet creates a safe digital infrastructure that is both people-first and tech-forward.

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**End of Updated Document**