

NGOs working in animal welfare and social services face major challenges in managing volunteers, tracking donations, coordinating rescue operations, and maintaining transparency. This project proposes a **comprehensive NGO Management Application (User App + Admin Dashboard)** with an innovative **Pet QR Belt System** to streamline operations, enhance accountability, and build stronger community engagement.

1. User Mobile App (Frontend)

- **User Registration & Authentication**
 - Sign up with Name, Email, Mobile, Location & Password.
 - Social login (Google/FB optional).
- **Membership Management**
 - Subscribe to NGO membership plans.
 - View benefits, renewal reminders.
- **Donation System**
 - One-time or recurring donations via UPI, Cards, NetBanking.
 - Donation history tracking & receipts.
- **Volunteer Registration**
 - Apply to become a volunteer.
 - Volunteer profile (skills, availability).
- **Complaint & Rescue Request**
 - Raise complaints (abandoned animals, illegal activities, etc.).
 - Request for rescue with photo, video & location.
- **Feeds / Updates**
 - View NGO work posts, news, upcoming events.

- Like, share, comment on NGO updates.
 - **Pet/Animal Adoption**
 - View shelter pets.
 - Request for adoption.
 - **Support & Helpdesk**
 - Direct chat or support ticket system.
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2. NGO Admin Dashboard (Web + Mobile)

- **Volunteer Management**
 - Approve/reject volunteer applications.
 - Assign tasks, track hours & performance.
- **Complaint & Rescue Tracking**
 - View complaints in real-time with location.
 - Assign to rescue team & update status.
- **Animal/Pet Shelter Management**
 - Add animals (with photo, age, vaccination records).
 - Adoption status & medical history tracking.
- **Membership Management**
 - Manage membership plans, renewals & expiry.
 - Track active/inactive members.
- **Donation & Fund Management**

- Track donations (online & offline).
- Generate receipts, donor reports.
- **Document Storage System**
 - Categorized storage of NGO documents (Govt. approvals, reports, medical certificates).
 - Role-based access (Admin, Manager, Volunteer).
- **Team Management**
 - Role-based accounts (Admin, Manager, Volunteer).
 - Task assignment & performance tracking.
- **Progress & Impact Tracing**
 - Track number of rescues, adoptions, donations.
 - Auto-generate impact reports (monthly/quarterly).
- **Complaint Heatmap**
 - GIS-based heatmap of rescue complaints.
 - Helps NGO identify hotspots for animal abuse/stray problems.

3. Why It's Needed – Common NGO Problems & Tech Solutions

Problem NGOs Face	Tech-Based Solution in This Project
Manual volunteer coordination	Volunteer management dashboard with task assignment & performance tracking
Losing donor trust due to lack of transparency	Automated donation receipts, donor history & impact reports

Difficulty in tracking rescue operations	Real-time complaint/rescue request system with status updates
No proper document organization	Centralized cloud-based document storage with categories & role-based access
Lack of community engagement	User-facing feeds, updates, and adoption listings
Weak fundraising	Online donation gateway + recurring donations + membership plans
Difficulty in showing impact to govt/donors	Auto-generated progress & impact reports
Mismanagement in animal shelters	Pet adoption/shelter management system with medical history
Inefficient complaint redressal	Mobile app for users to raise complaints with photo/video & geolocation
Volunteer misuse or inactive members	Progress tracking & activity logs for volunteers

4. Benefits

- **For NGO**

- Streamlined operations, less manual workload.
- Transparency builds donor trust.
- Easy tracking of activities & reporting.

- **For Users**

- One app for donations, memberships, volunteering & complaints.
- Easy adoption & rescue request system.

- **For Society**

- Faster rescue response.

- Improved NGO reach & engagement.
- Organized animal welfare system.

Pet QR Belt Scan & Management System

1. Pet Belt QR Feature (User App)

- **Scan QR Code (on Pet Belt)**
 - User app ke andar built-in QR scanner hoga.
 - Agar pet ka record already NGO database me hai → user ko **pet ki full information** dikhegi:
 - Pet name, breed, age, vaccination records, owner/NGO details, adoption status.
 - Agar record nahi mila → user ko option milega ki pet information add kare (photo, breed, location).
- **Pet Owner/NGO Interaction**
 - Agar koi pet owner ya NGO worker QR scan karta hai aur pet database me nahi hai → wo **new record create** kar sakta hai.
 - System pet ko “**Pending Verification**” state me daal dega, jisko NGO admin approve karega.
- **Lost & Found Feature**
 - Agar koi pet kho jata hai aur kisi ne QR scan kara, to owner ko instant **alert/notification** milega.
 - NGO ke pass bhi lost pet ka case track hoga.

2. Pet QR Belt System (Admin Dashboard)

- **QR Generation & Assignment**
 - NGO dashboard se har pet ke liye unique QR code generate hoga.
 - QR ko belt/tag pe print karke pet ke sath assign kiya jaayega.
 - Belt kisne liya (donor/adopter/NGO shelter) uska record maintain hoga.
- **Pet Database Management**
 - Pet information store hogi: name, photo, breed, age, vaccination history, health reports, adoption status.
 - Owner details: Name, contact, address, adoption date.
 - Belt allocation log: kisne belt liya, kab assign hua, kis pet ke liye.
- **Verification System**
 - Agar external user koi naya pet add karta hai → Admin NGO dashboard me approve/reject kar sakta hai.
 - Verified hone ke baad pet official database ka part ban jaata hai.
- **Analytics & Tracking**
 - Number of pets registered via QR belts.
 - Lost & found cases tracked.
 - Belt distribution records (kis NGO chapter ne kitne belts assign kiye).

3. Flow Example

1. NGO ek pet ko shelter me rakhta hai → Dashboard se us pet ke liye **QR generate karke belt print** karta hai.
2. Jab belt pehne pet ko adopter le jaata hai → belt adopter ke naam pe register ho jaata hai.

3. Agar pet galti se kho jata hai aur koi uska belt scan karta hai → adopter + NGO dono ko instant notification.
 4. Agar kisi stray dog pe belt hai aur scan kiya gaya → details show ho jaati hai. Agar record nahi mila to scan karne wala user form fill karke NGO ko new entry bhej sakta hai.
 5. NGO ke dashboard me sari belt assignments + pet records safe rahte hai.
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4. Why This Feature is a Game-Changer

NGO Problem	Solution via QR Belt System
Lost pets ka track karna mushkil	QR belt scan se owner/NGO ko instant alert
Pet information scattered hai	Centralized pet database with medical + ownership history
Adoption ke baad monitoring tough	Belt ke record se track hoga kisne pet adopt kiya aur uska health update
Stray dogs ki identity missing	QR scan karke external users bhi unka record bana sakte hai
Belt misuse ka issue	Dashboard me belt assignment logs maintain honge