**🧑‍🤝‍🧑 Detailed Volunteer Functionalities**

**1. Registration & Profile Management**

**Signup/Onboarding**

* **Options:** Email signup, Google/Facebook/social signup, mobile OTP (if you want to expand)
* **Fields to Ask:**
  + Full Name
  + Email Address (mandatory)
  + Mobile Number (optional/for OTP login or event reminders)
  + Password (if not using social login)
  + Age (optional, but can help for reporting)
  + City/Area (pre-select “Mumbai” or allow other cities for future expansion)
  + Interests (checkboxes: Beach cleanup, Tree plantation, Recycling, Awareness campaigns, etc.)
  + Prior volunteering experience (Yes/No/Short answer)
  + Profile picture upload (optional)
* **Post-signup:** Email/mobile verification, welcome email, and brief onboarding flow (optional walkthrough)

**Profile Editing**

* Ability to update personal details, add emergency contact, change password, upload/change profile picture.

**2. Event Discovery & Participation**

**Event Browsing**

* **Filters:**
  + Location (dropdown/map)
  + Date (calendar picker)
  + Event type (Beach, Lake, River cleanup, etc.)
  + Organizer name (optional)
* **Event Cards Show:**
  + Event name
  + Date and time
  + Location (with map)
  + Brief description
  + Spots available / Spots left
  + “Join Now” button
  + Organizers name and logo and verified tick

**Event Registration**

* **After clicking “Join Now”:**
  + Confirmation modal (“Are you sure you want to join?”)
  + Option to add to calendar (Google/Outlook)
  + Reminder setup (SMS/email/push)
* **Event Registration Flow:**
* “How many people are you registering for?” (1 = only myself; 2+ = myself + friends/family)
* Collect names (and optionally emails/mobile numbers) for group members.
* Option to send group confirmation/invites to those emails (future scope).
* **Contribution Tracking: Group’s impact (waste collected, hours) can be tracked as both individual and group.**

**Post-registration:**

* Generate a unique QR code for the main registrant (and optionally group QR or individual QRs for all).
* QR code sent via email/app (downloadable from “My Events”).
* QR code contains event ID and user/group ID.

**Waste Type Reporting (Post-Event - Volunteer-Side)**

* After each event, volunteers will:
  + Fill a **waste feedback form**: types of waste (Plastic, Glass, Metal, Organic, Hazardous, etc.), optional weight estimate, and optional photo.
* AI will:
  + Analyze all volunteer responses
  + Summarize into a **final impact report** for the organizer (waste type % breakdown, observations, total volume, etc.).
* Optional Add-on: **Image-based AI waste categorizer** (users upload photo → AI detects visible waste categories).

**My Events**

* List of upcoming and past events joined
* Option to “Withdraw” from future events (with confirmation)
* “You may also be interested in these events nearby” based on: User’s location, Event type preference, Upcoming dates
* **AI can recommend events** based on volunteer’s history and interests.

**3. Attendance & Contribution Tracking**

**Attendance**

* **Check-In:** QR code scan at event venue, or OTP provided by organizer
* Organizer can search volunteer’s name/email/phone in the event attendee list and manually check them in.
* **Check-Out:** Optional, to log hours contributed

**Contribution Stats**

* Number of events attended
* Total hours volunteered
* Estimated waste collected (if tracked per user)
* Achievements/unlocked badges
* No of contributors added with him/her/it

**Personal Dashboard**

* Visual summary (charts, numbers)
* Milestone highlights (e.g., “5 events completed!”)

**4. Reminders & Notifications**

* **Upcoming Event Reminders:** Email/push/SMS a day before and 1 hour before
* **Event Updates:** Changes in time/location, cancellations
* **Achievement Alerts:** “You’ve earned a new badge!”
* **Personalized Recommendations:** “You may like this event…”

**5. Educational & Support Features**

**Resource Center**

* Waste management best practices (articles, videos, infographics)
* Safety guidelines for volunteers
* FAQ section

**AI Chatbot**

* Available 24/7 for:
  + Event queries (“Where is my next event?”)
  + Guidance (“What to bring?” “How to segregate waste?”)
  + Troubleshooting (attendance, check-in, etc.)

**6. Gamification & Rewards**

**Achievements & Badges**

* Badges for:
  + First event attended
  + X kg waste collected
  + X events completed
  + Attending events at multiple locations
* **Leaderboard:** (Optional for MVP)
  + Top volunteers by events, hours, impact
* **Reward Redemption:** (Future scope, for sponsors/gift coupons)

**Other Useful Features (Optional but impactful)**

* **Social Sharing:** Share participation certificate or badge to social media
* **Feedback:** Post-event feedback form (simple rating + comment)
* **Certificate Generation:** Downloadable certificate after X events (auto-generated via GenAI)

**Volunteer: Sample User Journey**

1. Signs up → Completes profile → Browses events → Registers for an event → Gets reminders → Checks in at event → Learns from guides/resources → Completes event → Views contribution stats → Earns badge → Shares achievement.

**🧑‍💼 Organizer/Admin: Full Detailed Functionalities**

**1. Organizer Registration & Profile**

**Sign Up / Login**

* **Fields:**
  + Full Name (required)
  + Email Address (required, used for login)
  + Mobile Number (required for OTP and notifications)
  + Organization/NGO Name (required)
  + Role/Position (e.g., Coordinator, Manager)
  + Password (if not using social login)
  + Organization Logo or Profile Picture (optional, for branding)
* **Verification:**
  + Email/mobile OTP verification for first-time registration
  + (Optional) Upload proof of NGO registration/certificate for admin approval

**Profile Management**

* Edit personal and organization info
* Change password
* Upload/change profile photo/logo

**2. Admin Dashboard**

**Dashboard Widgets/Summary Cards**

* **Upcoming Events** (list with quick links)
* **Past Events** (quick stats)
* **Total Volunteers Registered** (count)
* **Active Volunteers This Month**
* **Total Waste Collected** (visual: line/bar chart)
* **Volunteer Feedback Summary** (recent ratings/comments)
* **Quick Actions:** Create Event, Message Volunteers, Generate Report

**3. Event Management**

**Event Creation**

* **Fields:**
  + Event Name (required)
  + Description (event purpose, details)
  + Location:
    - Address (Google Maps autocomplete/manual entry)
    - Geo-coordinates (auto or manual pin)
  + Date & Time (start/end, calendar/time picker)
  + Organizer(s) (select from registered admins)
  + Maximum Volunteer Slots (numeric, “unlimited” option)
  + Required Equipment (checkboxes: gloves, bags, masks, tools; text for “other”)
  + Event Type (dropdown: Beach, Lake, Awareness, Tree Plantation, etc.)
  + Event Image (upload; optional)
  + Additional Instructions (text)
  + Enable Group Registration? (checkbox)
  + Recurring Event? (checkbox, with frequency)
  + Govt approval letter about the event
* **Preview Event:** Organizer can preview before publishing
* **Equipment Management and Volunteer Tasks (Organizer-Side)**While creating an event, organizers will:
  + **List available equipment** (e.g., gloves: 50, trash bags: 30, masks: 25).
  + **Mention expected volunteer tasks** (e.g., plastic sorting, manual pickup, awareness walk).
  + **Indicate equipment volunteers should bring** (checklist shown to volunteers during registration).
* Volunteers will see this clearly on the event details page before joining.
* Later, we can auto-match volunteers to tasks based on their interests/skills (future scope).
* **Additional Event Safety & Logistic Questions (Mandatory)**

When organizers create an event, they must answer a few standardized safety/logistics questions:

* Will drinking water be provided?
* Age group recommended?
* Medical support available on-site?
* Any special precautions volunteers should follow?
* Nearest public transport options?
* Contact person on ground?

These are shown on the event page as a “Good to Know” or “Volunteer Info” section.

**Event Editing/Deletion**

* **Edit:** Change any detail; volunteers notified automatically of changes
* **Delete/Cancel:** Set reason, notify all registered volunteers

**Event List / Calendar**

* **Table View:** All events with filters (date, location, type, status)
* **Calendar View:** Monthly/weekly display of events

**Event Details Page**

* Summary, list of volunteers, attendance stats, waste data, photos

**Post-Event Activities Section (Optional during Event Creation)**

* Organizers can optionally define **Post-Event Activities**, such as:
  + Volunteer felicitation ceremony
  + Certificate distribution
  + Group photo session
  + Refreshments
  + Feedback collection meetup
* Shown in a dedicated section of the Event Page: *“Post-Event Plans”*

**4. Volunteer Management**

**Volunteer Registration List**

* **Fields:**
  + Volunteer Name, Email, Mobile
  + Registration Type (individual/group)
  + Number of People (if group)
  + Registration Timestamp
  + Attendance Status (Checked-in, No-show)
  + QR Code (downloadable for manual check-in)
  + Profile link
* **Actions:**
  + Filter/search volunteers (by name, email, status)
  + Export attendee list (CSV, Excel)
  + Message individual/group

**Attendance Management**

* **QR Code Scanner:** Scan volunteer QR at check-in
* **OTP Check-In:** Send OTP if QR forgotten
* **Manual Check-In:** Search by name/email/phone, mark present
* **Group Check-In:** Scan/mark for entire group
* **Check-Out:** Optional, for tracking volunteer hours

**Live Attendance Dashboard**

* Number of checked-in/out, pending arrivals
* Alerts for volunteers who haven’t arrived

**5. Communication & Announcements**

**Broadcast Messaging**

* **Send to:** All volunteers, event-specific, custom group
* **Channels:** Email, SMS, in-app notification
* **Templates:** Event reminder, thank-you note, urgent update

**One-on-One Messaging**

* Message individual volunteers for clarifications or appreciation

**Automated Reminders**

* Set schedule for reminders before and after events

**6. Waste Data Capture & Analytics**

**Data Logging After Event**

* **Fields:**
  + Total Waste Collected (kg, numeric)
  + Waste Types (multi-select: Plastic, Glass, Metal, Organic, E-waste, Other; enter weight/type per category)
  + Photos of waste piles (upload)
  + Assign contributions to volunteers/groups (optional—future scope)
  + Notes/comments (for special observations or incidents)
* **Add Data in Batches:** For multiple events or large-scale cleanups

**Analytics Dashboard**

* **Visuals:**
  + Pie/bar/line charts for waste types, event-wise, and location-wise stats
  + Heatmap for most impacted beaches/areas
  + Volunteer impact stats (total hours, most active, badges earned)
* **Reports:** Download CSV/Excel; print/export as PDF

**7. AI-Driven Content Generation**

**Impact Report Generator**

* **Auto-generate summary** (using AI) after each event:
  + Event overview, stats, highlights, top volunteers, testimonials
  + Charts and images
  + Option to edit AI draft before finalizing
  + Export as PDF/HTML/email

**Social Media Post Creator**

* **AI suggests captions/posts** for Facebook, Instagram, LinkedIn, Twitter/X (with impact stats, hashtags)
* **Image attachment:** Option to auto-generate visuals/infographics or attach event photos

**Volunteer Certificates/Thank You Notes**

* **Personalized certificates:** Download as PDF; mail directly to volunteers
* **AI-generated thank-you notes** based on volunteer contributions

**8. Feedback & Surveys**

**Post-Event Feedback**

* Trigger feedback form for all attendees
* **Fields:** Rating (1–5), comments, suggestions, “Would you volunteer again?” (Yes/No)
* **Analytics:** View average event ratings, recurring suggestions/issues

**9. Resource Center**

**Upload/Manage Resources**

* Upload guides (PDFs), safety protocols, event checklists, infographics
* Assign resource packs to specific events
* Volunteers can access/download resources from event page

**10. Organizer Settings & Security**

* Manage profile, change password
* Add/remove co-organizers/admins (future: role-based access)
* API key management (for AI and SMS/email integrations)
* Data privacy controls

**Sample Organizer User Journey**

1. **Login**  
   → Sees dashboard with stats and quick actions.
2. **Create Event**  
   → Fills form (details, equipment, instructions, images)  
   → Publishes event.
3. **Manage Volunteers**  
   → Views registrations  
   → Sends reminder  
   → Checks in volunteers on event day (QR, OTP, manual)  
   → Marks group attendance.
4. **Log Waste & Generate Impact**  
   → Inputs data (waste, images)  
   → Runs AI-generated report/social post  
   → Downloads or shares.
5. **Collect Feedback**  
   → Triggers feedback form  
   → Reviews insights.
6. **Upload/Share Resources**  
   → Assigns guides to event
7. **Review Analytics**  
   → Visualizes data; identifies trends; plans future events

**🧑‍💼 Organization Page:**

**1. Official Organization Pages + Role-Based Onboarding**

* Create **public-facing pages for each organization**:
  + Show name, description, logo, impact stats, past events, active organizers, notable volunteers.
* While signing up, users choose:
  + **Volunteer** or **Organizer**
* If "Organizer":
  + Choose the organization (from list of created org pages).
  + Request goes to that org's admin for **approval/rejection**.
  + If rejected, user is defaulted to volunteer role but can retry later.

**2. Sponsorship Option for Events & Organizations**

* Allow users to **sponsor an event** or **sponsor an organization**.
* Sponsorship types:
  + Monetary donation
  + Food/snacks for volunteers
  + Providing logistics/equipment
  + Promotional support (social sharing, printing, etc.)
* Sponsorship will be visible on the event/org page (e.g., *“Sponsored by @Rahul for lunch”*).
* Option to display **sponsors' names/logos** publicly or keep anonymous.

User flow :

Volunteer

**Start**  
⬇  
**Sign Up / Login**  
⬇  
**Select Role: Volunteer + Verify ID**  
⬇  
**Browse Events / Get AI Recommendations**  
⬇  
**View Event Details (with waste videos)**  
⬇  
**Register (solo/group) & Get QR Code**  
⬇  
**Receive Reminders**  
⬇  
**Attend Event & Check-in (QR / OTP)**  
⬇  
**Live Event Updates + Safety Alerts**  
⬇  
**Fill Post-Event Waste Log**  
⬇  
**Receive Certificate + Contribution Rewards**  
⬇  
**Access My Dashboard (Badges, History, Leaderboard)**  
⬇  
**Get Recommendations for Future Events**  
⬇  
**End**

Organizer :   
**Start**  
⬇  
**Sign Up / Login**  
⬇  
**Select Role: Organizer**  
⬇  
**Choose Existing Organization**  
⬇  
**Send Join Request → Wait for Approval by Org Admin**  
⬇  
✅ **If Approved → Access Organizer Dashboard**  
⬇  
**Conduct On-Site Pre-Event Survey**  
⬇  
**AI Generates Pre-Event Report + Suggests Waste Videos**  
⬇  
**Create & Publish Event (add tasks, equipment, safety info)**  
⬇  
**Track Registrations & Volunteer Count**  
⬇  
**Check-in Volunteers (QR / OTP / Manual)**  
⬇  
**Monitor Live Progress (safety alerts, participation updates)**  
⬇  
**Collect Waste Logs → AI Generates Impact Report**  
⬇  
**Send Certificates & Social Posts (auto-generated)**  
⬇  
**Manage Past Events, Feedback, Badges**  
⬇  
**End**

Organization :

**Start**  
⬇  
**Create Organization Page**  
⬇  
**Upload Verification Documents** (registration proof, PAN, etc.)  
⬇  
**Assign Admin / Manager of the Page**  
⬇  
**Receive “Blue Applicant” Badge**  
⬇  
**Host Trial Cleanup Event (under observation)**  
⬇  
**Submit Proof (photos, attendance, waste logs)**  
⬇  
✅ **Get “Blue Verified” Badge** *(on successful validation)*  
⬇  
**Add/Approve Organizers** (who select this org while signing up)  
⬇  
**Display Past Events, Volunteers, Sponsors on Profile**  
⬇  
**Accept Sponsorships** (event-wise or org-level)  
⬇  
**Manage Org Reputation (Ratings, Reports, Badges)**  
⬇  
**End**