

HiveHand

~ Helping hands in a hive ~

Group 8

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Summary

Our application is a volunteer job hub that connects organizations, communities, and companies with people eager to contribute their time and skills. It makes it easy to post, discover, and apply for volunteer opportunities, while recognizing and rewarding volunteers for their impact.

Target Audience



```
graph TD; A[Target Audience] --> B[Volunteers]; A --> C[Organizations, Communities & Companies];
```

Volunteers

Students, professionals, or community members looking to gain experience, give back, or connect with causes they care about.

Organizations, Communities & Companies

Nonprofits, schools, event organizers, and businesses that rely on volunteers to run programs and events.

Why will people want to use it?

For organizations, finding reliable volunteers is a constant challenge. Our system helps them easily post opportunities, manage applications, and recognize contributors.

Unlike generic job boards, our platform focuses specifically on volunteering, with features like recommendations, badges, and that make the experience engaging and trustworthy.

For volunteers, it's hard to discover opportunities that match their skills and interests. Our platform makes it simple to search, apply, and track their contributions.

Features

Job/Task Posting (Organizations)

- Organizations can post voluntary jobs or tasks.
- Each post includes title, description, category (e.g., events, tutoring, community work), required skills, and expected time commitment.

Badges & Recognition(Volunteers)

- Volunteers earn digital badges like “*Event Helper*”, “*Tutor*”, or “*Community Builder*”.
- Volunteers earn ratings. The more they contribute, the higher their platform ratings will be.
- Schools can use our platform to help find students volunteer jobs to improve their skills and confidence, and make it a part of their curriculum.

Job Browsing & Recommendations (Volunteers)

- Volunteers can search and filter opportunities by category, location, skills, or time commitment.
- Volunteers get suggested opportunities based on their profile, skills, and past volunteering activity.

Features

Application Flow (Both)

- Volunteers apply directly through the platform.
- Organizations can accept/decline applications based on applicant's profile.
- Application status updates are visible to volunteers (e.g., applied, accepted, completed).

Location (Both)

- Volunteers can search jobs based on locations
- Organisers can clarify where they are holding the event with the help of a local map.

Tech Stack

Front end – React

- Easy to build our features:
Job discovery, filters, applications, and dashboards are straightforward with React's component model.
- Speed & ecosystem:
Massive library support (UI kits, forms, charts)
- Our team has previous experience with React.

Back end – Express + Node.js

- Same language front and backend; less context-switching
- Minimal and lightweight, flexible
- Ship quickly since we were a small team

Database – PostgreSQL+ PostGIS

- Relational fit: Users, organizations, jobs, applications, statuses—clear relationships and constraints.
- Powerful search: Built-in text search, perfect for finding opportunities by skill/location.

Architecture

