



Innovative & Entrepreneurship Hub for Educated Rural Youth (SURE Trust -IERY)

COMMUNITYUNITY: VOLUNTEER EVENT & LOGISTICS PLATFORM

The domain of the Project: Full Stack Development

Team Mentors (and their designation):

Prasanna Kundu sir: Software Engineer, Full Stack Instructor

Technologies: MERN Stack, React, FastAPI, PostgreSQL, Neo4j (Graph DB),
JavaScript, Java Spring Boot, Electron, Next.js, SQLite, React Native

Team Members:

Ms Vasanthi Kondreddy

Period of the project

April 2025 to September 2025



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Declaration

The project titled “COMMUNITYUNITY: VOLUNTEER EVENT &LOGISTICS PLATFORM” has been mentored by Prasanna Kundu sir, organised by SURE Trust, from April 2025 to September2025, for the benefit of the educated unemployed rural youth for gaining hands-on experience in working on industry relevant projects that would take them closer to the prospective employer. I declare that to the best of my knowledge the members of the team mentioned below, have worked on it successfully and enhanced their practical knowledge in the domain.

Team Members:

1. Ms. Vasanthi Kondreddy

Prasanna kundu

Mentor's Name

Mentor's Name

Prasanna Kundu sir: Software engineer.

Full stack instructor|Mernstackdeveloper

Prof. Radhakumari

Executive Director & Founder

SURE Trust



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Executive Summary

This project aims to simplify coordination between volunteers, organizers, and administrators for community events. It leverages real-time communication, role-based access, and cloud deployment to deliver a scalable and responsive platform.

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Introduction

- **Background:** Community events often suffer from a lack of structured coordination tools.
- **Problem Statement:** Manual tracking of volunteers, logistics, and announcements leads to inefficiency.
- **Scope:** Web-based platform accessible across devices.
- **Innovation:** Real-time updates, role-based dashboards, and mobile responsiveness.



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Project Objectives

- Build a secure, role-based coordination system
- Enable real-time announcements and task tracking
- Provide mobile-friendly access for all users
- Deploy the platform using cloud infrastructure



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Methodology and Results

- **Technologies Used:**
 - Frontend: React.js, Tailwind CSS
 - Backend: Node.js, Express.js
 - Database: MongoDB Atlas
 - Real-Time: Socket.IO
 - Deployment: AWS (frontend and backend)
- **Architecture:** MERN stack with RESTful APIs and Socket.IO integration
- **Screenshots:** Included in GitHub repo
- **GitHub Link:** <https://github.com/vasanthikondreddy/CommunityUnity>



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Social / Industry Relevance

- *Empowers NGOs and community groups with digital tools*
- *Reduces manual coordination overhead*
- *Demonstrates real-world application of full stack development*



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Learning & Reflection

- **Technical Skills:**
 - Role-based access control
 - Real-time data flow with Socket.IO
 - Cloud deployment and environment configuration
- **Experience:**
 - Hands-on debugging and iterative improvement
 - UI/UX polish for mobile users
 - Collaboration and documentation for internship readiness



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Conclusion & Future Scope

- **Achievements:**
 - Fully functional platform with real-time features
 - Secure and scalable architecture
 - Mobile-responsive design
- **Future Scope:**
 - Push notifications
 - Multi-language support
 - Analytics dashboard for organizers



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